

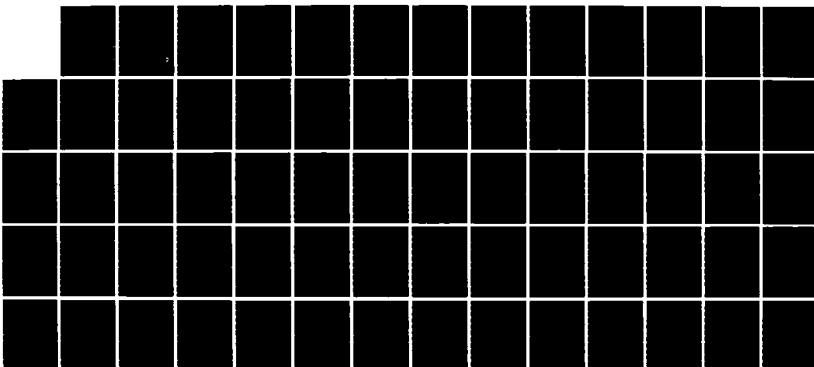
AD-A166 818

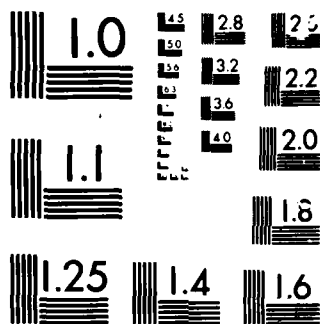
ADA (TRADE NAME) COMPILER VALIDATION SUMMARY REPORT:
INTERMETRICS INC I2A. (U) INFORMATION SYSTEMS AND
TECHNOLOGY CENTER W-P AFB OH ADA VALI. 18 DEC 85
AVF-VSR-22. 0286 F/G 9/2

1/1

UNCLASSIFIED

NL





MICROCOPY

CHART

AD-A166 818

AVF-VSR-22.0286

Ada® COMPILER VALIDATION SUMMARY REPORT:
Intermetrics, Inc.
I2Ada Compiler, Version 17.08
for the
IBM 370 Architecture
under
UTS 2.3

Completion of On-Site Validation:
10 DEC 1985

Prepared By:
Ada Validation Facility
Information Systems & Technology Center
ASD/SIOL
Wright-Patterson AFB OH 45433-6503

Prepared For:
Ada Joint Program Office
United States Department of Defense
Washington, D.C.

This document has been approved
for public release and sale; its
distribution is unlimited.

Ada is a registered trademark of the United States Government
(Ada Joint Program Office).

MAY 1 1986

86 4 30 042

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1 REPORT NUMBER	12 GOVT ACCESSION NO.	3 RECIPIENT'S CATALOG NUMBER
ADA 166818		
4 TITLE (and Subtitle) Ada Compiler Validation Summary Report: Intermetrics Inc., 12Ada Compiler, Version 17.08 for the IBM 370 Architecture under UTS 2.3		5 TYPE OF REPORT & PERIOD COVERED 10 Dec. '85 to 10 Dec. '86
		6 PERFORMING ORG. REPORT NUMBER AVF-VSR-22.0286
7 AUTHOR(s) Ada Validation Facility		8 CONTRACT OR GRANT NUMBER(s)
9 PERFORMING ORGANIZATION NAME AND ADDRESS Ada Validation Facility Computer Operations Division Info. Systems and Technology Center, WP AFB, OH 45433		10 PROGRAM ELEMENT PROJECT TASK AREA & WORK UNIT NUMBERS
11 CONTROLLING OFFICE NAME AND ADDRESS Ada Joint Program Office 1211. S. Fern Street, Rm. C-107 Arlington, VA 22202		12 REPORT DATE 10 December 1985
		13 NUMBER OF PAGES 66
14 MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) Ada Validation Facility		15 SECURITY CLASS (of this report) UNCLASSIFIED
		15a DECLASSIFICATION/DOWNGRADING SCHEDULE
16 DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited		
17 DISTRIBUTION STATEMENT (of the abstract entered in Block 20. If different from Report) Unclassified.		
18 SUPPLEMENTARY NOTES		
19 KEY WORDS (Continue on reverse side if necessary and identify by block number) Ada Programming language, Ada Compiler Validation Summary Report, Ada Compiler Validation Capability, ACVC, Validation Testing, Ada Validation Office, AVO, Ada Validation Facility, AVF, ANSI/MIL-STD-1815A, Ada Joint Program Office, AJPO.		
20 ABSTRACT (Continue on reverse side if necessary and identify by block number) See attached.		

DD FORM 1 JAN 73 1473

EDITION OF 1 NOV 65 IS OBSOLETE
S/N 0102-LF-014-6601

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

ABSTRACT

This Validation Summary Report presents the results and conclusions of testing performed on the Intermetrics, Inc. I2Ada Compiler, Version 17.08. Standardized tests serve as input to an Ada compiler, producing results which are evaluated by the validation team. This summary briefly states the highlights of the Intermetrics, Inc. I2Ada Compiler, Version 17.08 validation.

On-site testing was performed 6 DEC 1985 through 10 DEC 1985 at Intermetrics, Inc. in Cambridge MA under the auspices of the Ada Validation Facility (AVF), according to Ada® Validation Office (AVO) policies and procedures. The Intermetrics, Inc. I2Ada Compiler, Version 17.08 is hosted on the IBM 370 architecture operating under UTS 2.3. The suite of tests known as the Ada Compiler Validation Capability (ACVC), Version 1.6, was used. The ACVC is used to validate conformance of a compiler to ANSI/MIL-STD-1815A Ada. The purpose of testing is to ensure that a compiler properly implements legal language constructs and that it identifies and rejects illegal language constructs. The testing also identifies behavior that is implementation dependent but permitted by the Ada Standard. Six classes of tests are used. These tests are designed to perform checks at compile time, at link time, or during execution.

The results of validation are summarized in the following table.

RESULT	TEST CLASS						TOTAL
	A	B	C	D	E	L	
Passed	60	773	1058	12	8	3	1914
Failed	0	0	0	0	0	0	0
Inapplicable	1	8	168	5	0	0	182
Anomalous	0	0	0	0	0	0	0
Withdrawn	0	19	47	0	0	0	66
TOTAL	61	800	1273	17	8	3	2162

Accession For	
NTIS GRA&I	<input checked="" type="checkbox"/>
DTIC TAB	<input checked="" type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	<input type="checkbox"/>
By _____	
Distribution/	
Availability Codes	
1st	Avail and/or
	Special

A-V

®Ada is a registered trademark of the United States Government (Ada Joint Program Office).



++++
+ +
+ Place NTIS form here +
+ +
++++

Ada® Compiler Validation Summary Report:

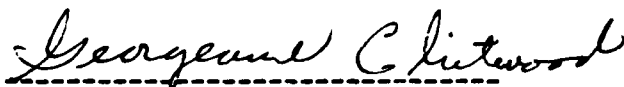
Compiler Name: Intermetrics, Inc. I2Ada Compiler, Version 17.08

Host Computer
IBM 370 Architecture
under
UTS 2.3

Target Computer
IBM 370 Architecture
under
UTS 2.3

Testing Completed 10 DEC 1985 Using ACVC 1.6

This report has been reviewed and is approved.



Ada Validation Facility (AVF)
Georgeanne Chitwood
Acting Manager
ASD/SIOL
Wright-Patterson AFB OH



Ada Validation Office (AVO)
Dr. John F. Kramer
Institute of Defense Analyses
Alexandria VA



Ada Joint Program Office (AJPO)
Virginia L. Castor
Director
Department of Defense
Washington DC

©Ada is a registered trademark of the United States Government
(Ada Joint Program Office).

EXECUTIVE SUMMARY

This Validation Summary Report presents the results and conclusions of testing performed on the Intermetrics, Inc. I2Ada Compiler, Version 17.08. Standardized tests serve as input to an Ada compiler, producing results which are evaluated by the validation team. This summary briefly states the highlights of the Intermetrics, Inc. I2Ada Compiler, Version 17.08 validation.

On-site testing was performed 6 DEC 1985 through 10 DEC 1985 at Intermetrics, Inc. in Cambridge MA under the auspices of the Ada Validation Facility (AVF), according to Ada® Validation Office (AVO) policies and procedures. The Intermetrics, Inc. I2Ada Compiler, Version 17.08 is hosted on the IBM 370 architecture operating under UTS 2.3. The suite of tests known as the Ada Compiler Validation Capability (ACVC), Version 1.6, was used. The ACVC is used to validate conformance of a compiler to ANSI/MIL-STD-1815A Ada. The purpose of testing is to ensure that a compiler properly implements legal language constructs and that it identifies and rejects illegal language constructs. The testing also identifies behavior that is implementation dependent but permitted by the Ada Standard. Six classes of tests are used. These tests are designed to perform checks at compile time, at link time, or during execution.

The results of validation are summarized in the following table.

RESULT	TEST CLASS						TOTAL
	A	B	C	D	E	L	
Passed	60	773	1058	12	8	3	1914
Failed	0	0	0	0	0	0	0
Inapplicable	1	8	168	5	0	0	182
Anomalous	0	0	0	0	0	0	0
Withdrawn	0	19	47	0	0	0	66
TOTAL	61	800	1273	17	8	3	2162

®Ada is a registered trademark of the United States Government
(Ada Joint Program Office).

Tests found to contain errors were withdrawn from Version 1.6 of the Ada Compiler Validation Capability (ACVC). When validation was completed, the following tests had been withdrawn:

C35904A-B	B38105B-AB	C45521A-B through C45521Y-B (25 tests)
C48005C-B	C48006B-B	C64103C-B
C64103D-B	C64105E-AB	C64105F-AB
B66001A-B	B67001A-B	B67004A-B
B74103F-B	B74207A-B	C93005A-B
C93005B-B	C93005C-B	C93007B-B
CA1003B-AB	CA1011A-B	CA1108A-B
CA1108B-B	BA2001E-AB	CA2009B-B
CA2009E-B	CA2009F-B	BC1013A-B
BC3204A-B	BC3204B-B	BC3204C-B
BC3204D-B	BC3205A-B	BC3205B-B
BC3205C-B	BC3205D-B	BC3220B-B
BC3405B-B	BC3503A-B	CE2107E-B
CE3603A-B	CE3604A-B	CE3704M-B

Some tests demonstrate that language features are not supported by an implementation. For this implementation, the tests determined the following:

- . SHORT_INTEGER is not supported:

B52004E-AB.DEP	B55B09D-AB.DEP	B86001CR-AB.DEP
C34001D-B.DEP	C55B07B-AB.DEP	

- . LONG_INTEGER is not supported:

B52004D-AB.DEP	B55B09C-AB.DEP	B86001CS-AB.DEP
C34001E-B.DEP	C55B07A-AB.DEP	

- . LONG_FLOAT is not supported:

B86001CQ-AB.DEP	C34001G-B.DEP	C35702B-AB.DEP
-----------------	---------------	----------------

- . Representation specifications for noncontiguous enumeration representations are not supported:

C55B16A-AB.DEP

- . No other integer type other than INTEGER, SHORT_INTEGER, and LONG_INTEGER is supported:

B86001DT-AB.DEP

- . The package SYSTEM is used by package TEXT_IO:

C86001F-B.DEP

- . The 'SMALL clause is not supported:

C87B62C-B.DEP

- . Pragma INLINE is supported for procedures and for functions:

LA3004A-AB.ADA LA3004B-AB.ADA

- . Instantiation of package SEQUENTIAL_IO with unconstrained array types is not supported when the discriminants have no default value:

CE2201D-B.DEP

- . Instantiation of package SEQUENTIAL_IO with unconstrained record types with discriminants having no default value is not supported:

CE2201E-B.DEP

- . Instantiation of package DIRECT_IO with unconstrained array types and unconstrained types with discriminants is not supported:

AE2101C-B.DEP CE2401D-B.DEP

ACVC Version 1.6 was taken on-site via magnetic tape to Intermetrics, Inc., Cambridge MA. The tape was loaded, and all tests, except the withdrawn tests and any executable tests which make use of a floating-point precision greater than SYSTEM.MAX_DIGITS, were compiled on the IBM 370 architecture. Class A, C, D, and E tests were executed on the IBM 370 architecture.

On completion of testing, all results were analyzed for failed Class A, C, D, or E programs, and all Class B and L compilation results were individually analyzed.

The ACVC, Version 1.6, contains 2162 tests of which 1914 were applicable to the Intermetrics, Inc. I2Ada Compiler, Version 17.08. No anomalies were found in the testing of this compiler. Testing demonstrated that all applicable tests were passed by this compiler and conformed to the Ada Standard. The AVF concluded that the results show acceptable compliance to ANSI/MIL-STD-1815A Ada.

TABLE OF CONTENTS

CHAPTER 1	INTRODUCTION	
1.1	PURPOSE OF THIS VALIDATION SUMMARY REPORT	1-2
1.2	USE OF THIS VALIDATION SUMMARY REPORT	1-2
1.3	REFERENCES	1-3
1.4	DEFINITION OF TERMS	1-3
1.5	CONFIGURATION	1-4
CHAPTER 2	TEST RESULTS	
2.1	ACVC TEST CLASSES	2-1
2.1.1	Class A Tests	2-2
2.1.2	Class B Tests	2-3
2.1.3	Class C Tests	2-4
2.1.4	Class D Tests	2-5
2.1.5	Class E Tests	2-6
2.1.6	Class L Tests	2-7
2.1.7	Support Units	2-8
2.2	WITHDRAWN TESTS	2-9
2.3	INAPPLICABLE TESTS	2-11
2.4	IMPLEMENTATION CHARACTERISTICS	2-13
CHAPTER 3	COMPILER ANOMALIES AND NONCONFORMANCES	
3.1	ANOMALIES	3-1
3.2	NONCONFORMANCES	3-1
CHAPTER 4	ADDITIONAL TESTING INFORMATION	
4.1	PRE-VALIDATION	4-1
4.2	TEST SITE	4-1
4.3	TEST TAPE INFORMATION	4-1
4.4	TESTING LOGISTICS	4-2
4.5	TESTING DURATION	4-2
CHAPTER 5	SUMMARY AND CONCLUSIONS	
APPENDIX A	COMPLIANCE STATEMENT	
APPENDIX B	TEST PARAMETERS	
APPENDIX C	COMMAND SCRIPTS	
APPENDIX D	COMPLETE LIST OF TESTS AND RESULTS	

CHAPTER 1

INTRODUCTION

The Validation Summary Report describes how an Ada compiler conforms to the language Standard. This report explains all technical terms used within it and thoroughly reports the Ada Compiler Validation Capability (ACVC) test results. Ada compilers must be written according to the language specification as given in ANSI/MIL-STD-1815A Ada. All implementation-defined features must be included for the compiler to conform to the Standard. Following the guidelines of the Standard ensures continuity between compilers. That is, the entire Standard must be implemented, and nothing can be implemented that is not in the Standard.

Even though all validated Ada compilers conform to the Standard, it must be understood that some differences do exist between implementations. ANSI/MIL-STD-1815A permits some implementation dependencies--e.g., the maximum length of identifiers, the maximum values of integer types, etc. These implementation-dependent features limit the portability of programs between compilers. Other differences between compilers are due to limitations imposed on a compiler by the operating system and by the hardware. All of these dependencies are given in the report.

Validation Summary Reports are written according to a standardized format. Compiler users can, therefore, more easily compare the reports from several compilers when selecting a compiler for a given task. The validation report can be completed mostly from the test results produced during validation testing. Additional testing information is given at the end of the report and states problems and details which are unique for a specific compiler. The format of the validation report limits variance between reports, enhances readability of the report, and accelerates report readiness.

INTRODUCTION

1.1 PURPOSE OF THIS VALIDATION SUMMARY REPORT

The Validation Summary Report documents the results of the testing performed on an Ada compiler. Testing was carried out for the following purposes:

- . To identify any language constructs supported by the translator that do not conform to the Ada Standard
- . To identify any unsupported language constructs required by the Ada Standard
- . To describe the implementation-dependent behavior allowed by the Ada Standard

Testing of this compiler was conducted by SofTech, Inc. under the supervision of the Ada Validation Facility (AVF) according to policies and procedures established by the Ada Validation Office (AVO). Testing was conducted from 6 DEC 1985 through 10 DEC 1985 at Intermetrics, Inc., Cambridge MA.

1.2 USE OF THIS VALIDATION SUMMARY REPORT

Consistent with the national laws of the originating country, the Ada Validation Office may make full and free public disclosure of this report. In the United States, this is provided in accordance with the "Freedom of Information Act" (5 U.S.C. #552). The results of this validation apply only to the computers, operating systems, and compiler versions identified in this report.

The organizations represented on the signature page of this report do not represent or warrant that any statement or statements set forth in this report are accurate or complete, or that the subject compiler has no nonconformances to the Ada Standard other than those presented. This report is not intended for the purpose of publicizing the findings summarized herein.

Questions regarding this report or the validation tests should be directed to:

Ada Validation Office
Institute for Defense Analyses
1801 N. Beauregard
Alexandria VA 22311

and to:

Ada Validation Facility
Information Systems & Technology Center
ASD/SIOL
Wright-Patterson AFB OH 45433-6503

1.3 REFERENCES

1. Reference Manual for the Ada Programming Language, ANSI/MIL-STD-1815A, Feb 1983.
2. Ada Validation Organization: Policies and Procedures, Mitre Corporation, June 1982, PB 83-110601
3. Ada Compiler Validation Capability Implementers' Guide, SofTech, Inc., Dec 1984.

1.4 DEFINITION OF TERMS

Anomaly	A test result that, given pre-validation analysis, is not expected during formal validation but is judged allowable under the circumstances.
ACVC	The Ada Compiler Validation Capability. A set of programs that evaluates the conformance of a compiler to the Ada language specification, ANSI/MIL-STD-1815A.
Ada Standard	ANSI/MIL-STD-1815A, February 1983.
Applicant	The agency requesting validation.
AVF	The Ada Validation Facility. In the context of this report, the AVF is responsible for conducting compiler validations according to established policies and procedures.
AVO	The Ada Validation Office. In the context of this report, the AVO is responsible for setting policies and procedures for compiler validations.
Compiler	A processor for the Ada language. In the context of this report, a compiler is any language processor, including cross-compilers, translators, and interpreters.
Failed test	A test for which the compiler generates a result that demonstrates nonconformance to the Ada Standard.
Host	The computer on which the compiler resides.
Inapplicable test	A test that uses features of the language that a compiler is not required to support or may legitimately support in a way other than the one expected by the test.
Passed test	A test for which a compiler generates the expected result.

INTRODUCTION

Target The computer for which a compiler generates code.

Test A program that evaluates the conformance of a compiler to a language specification. In the context of this report, the term is used to designate a single ACVC test. The text of a program may be the text of one or more compilations.

Withdrawn test A test that has an invalid test objective, fails to meet its test objective, or contains illegal use of the language.

1.5 CONFIGURATION

The candidate compilation system for this validation was tested under the configuration:

Compiler: Intermetrics, Inc. I2Ada Compiler, Version 17.08

Test Suite: Ada Compiler Validation Capability (ACVC), Version 1.6

Host Computers:

Machines:	IBM 3083, Model BX2 IBM 4341, Model L2
Operating System:	UTS 2.3
Memory Size:	IBM 3083: 24 megabytes IBM 4341: 12 megabytes

Target Computers:

Machines:	IBM 3083, Model BX2 IBM 4341, Model L2
Operating System:	UTS 2.3
Memory Size:	IBM 3083: 24 megabytes IBM 4341: 12 megabytes

The Class B and L tests were run on an IBM 4341, and the executable tests were run on an IBM 3083.

CHAPTER 2

TEST RESULTS

2.1 ACVC TEST CLASSES

Conformance to ANSI/MIL-STD-1815A is measured using the ACVC. The ACVC contains both legal and illegal Ada programs structured into six test classes: A, B, C, D, E, and L. Legal programs are compiled and executed, while illegal programs are just compiled. Support packages are used to report the results of the legal programs. A compiler must correctly process each of the tests in the suite and demonstrate conformance to the Ada Standard by either meeting the pass criteria given for the test or by showing that the test is inapplicable to the implementation. Tests that are found to contain errors are withdrawn from the ACVC. Detailed test results are listed in Appendix D. The results of validation testing are summarized in the following table:

RESULT	TEST CLASS						TOTAL
	A	B	C	D	E	L	
Passed	60	773	1058	12	8	3	1914
Failed	0	0	0	0	0	0	0
Inapplicable	1	8	168	5	0	0	182
Anomalous	0	0	0	0	0	0	0
Withdrawn	0	19	47	0	0	0	66
TOTAL	61	800	1273	17	8	3	2162

A total of 1941 tests were processed during this validation attempt. The 66 withdrawn tests in Version 1.6 were not processed, nor were 155 Class C tests that were inapplicable because they use floating-point types having digits that exceed the maximum value for the implementation. All other tests were processed.

TEST RESULTS

Some conventions are followed in the ACVC to ensure that the tests are reasonably portable without modification. For example, the tests make use of only the basic 55 character set, contain lines with a maximum length of 72 characters, use small numeric values, and place features that may not be supported in separate tests. However, some tests contain values that require the test to be customized according to implementation-specific values. The values used for this validation are listed in Appendix B.

2.1.1 Class A Tests

Class A tests check that legal Ada programs can be successfully compiled and executed. However, no checks are performed during execution to see if the test objective has been met. For example, a Class A test checks that reserved words of another language (other than those already reserved in the Ada language) are not treated as reserved words by an Ada compiler. A Class A test is passed if no errors are detected at compile time and the program executes to produce a message indicating that it has passed. If a Class A test cannot be compiled and executed because of its size, then the test is split into a set of smaller subtests that can be processed. No splits were required for the Class A tests.

The following table shows that all applicable Class A tests passed:

RESULT	CHAPTER												
	2	3	4	5	6	7	8	9	10	11	12	14	TOTAL
Passed	13	6	0	5	2	12	13	3	0	0	0	6	60
Failed	0	0	0	0	0	0	0	0	0	0	0	0	0
Inapplicable	0	0	0	0	0	0	0	0	0	0	0	1	1
Anomalous	0	0	0	0	0	0	0	0	0	0	0	0	0
Withdrawn	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	13	6	0	5	2	12	13	3	0	0	0	7	61

TEST RESULTS

2.1.2 Class B Tests

Class B tests check that a compiler detects illegal language usage. Class B tests are not executable. Each test in this class is compiled and the resulting compilation listing is examined manually to verify that every syntax or semantic error in the test is detected. A Class B test is passed if every illegal construct that it contains is detected by the compiler. If one or more errors are not detected, then a version of the test is created that contains only the undetected errors. The resulting "split" is compiled and examined. The splitting process continues until all errors are detected by the compiler. Splits were required for six tests:

B66001C-B.ADA
B71001E-AB.ADA

B71001Q-AB.ADA
B97101E-AB.ADA

B97103E-AB.ADA
BA1101C-B.ADA

The following table shows that all applicable Class B tests passed:

RESULT	CHAPTER												
	2	3	4	5	6	7	8	9	10	11	12	14	TOTAL
Passed	35	72	83	109	70	55	48	92	35	8	148	18	773
Failed	0	0	0	0	0	0	0	0	0	0	0	0	0
Inapplicable	0	0	0	4	0	0	4	0	0	0	0	0	8
Anomalous	0	0	0	0	0	0	0	0	0	0	0	0	0
Withdrawn	0	1	0	0	3	2	0	0	1	0	12	0	19
TOTAL	35	73	83	113	73	57	52	92	36	8	160	18	800

TEST RESULTS

2.1.3 Class C Tests

Class C tests check that legal Ada programs can be correctly compiled and executed. Each Class C test is self-checking and produces a PASS/FAIL message indicating the result when it is executed. If a Class C test cannot be compiled because it exceeds the compiler's capacity, then the test is split into smaller subtests until all are compiled and executed. No splits were required for the Class C tests.

The following table shows that all applicable Class C tests passed:

RESULT	CHAPTER												
	2	3	4	5	6	7	8	9	10	11	12	14	TOTAL
Passed	28	133	198	116	70	14	95	105	35	20	55	189	1058
Failed	0	0	0	0	0	0	0	0	0	0	0	0	0
Inapplicable	14	74	71	3	0	0	2	0	1	0	0	3	168
Anomalous	0	0	0	0	0	0	0	0	0	0	0	0	0
Withdrawn	0	1	27	0	4	0	0	4	7	0	0	4	47
TOTAL	42	208	296	119	74	14	97	109	43	20	55	196	1273

2.1.4 Class D Tests

Class D tests check the compilation and execution capacities of a compiler. Since there are no requirements placed on a compiler by the Ada Standard for the number of identifiers permitted in a compilation, the number of units in a library, the number of nested loops in a subprogram body, and so on, a compiler may refuse to compile a Class D test. Each Class D test is self-checking and produces a PASS/FAIL message indicating the result when it is executed. If a Class D test fails to compile because the capacity of the compiler is exceeded, then the test is classified as inapplicable.

The following table shows that all applicable Class D tests passed:

RESULT	CHAPTER												
	2	3	4	5	6	7	8	9	10	11	12	14	TOTAL
Passed	1	0	4	4	3	0	0	0	0	0	0	0	12
Failed	0	0	0	0	0	0	0	0	0	0	0	0	0
Inapplicable	0	0	0	5	0	0	0	0	0	0	0	0	5
Anomalous	0	0	0	0	0	0	0	0	0	0	0	0	0
Withdrawn	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	0	4	9	3	0	0	0	0	0	0	0	17

Capacities measured by the Class D tests are detailed in section 2.4, IMPLEMENTATION CHARACTERISTICS.

TEST RESULTS

2.1.5 Class E Tests

Class E tests provide information about the compiler in those areas in which the Ada Standard permits implementations to differ. Each Class E test is executable and produces messages that indicate how the Ada Standard is interpreted. However, in some cases the Ada Standard permits a compiler to detect a condition either at compile time or at execution time, and thus a Class E test may correctly fail to execute. A Class E test is passed if it fails to compile and appropriate error messages are issued, or if it executes properly and produces a message that it has passed. If a Class E test cannot be compiled and executed because of its size, then the test is split into a set of smaller subtests that can be processed. No splits were required for the Class E tests.

The following table shows that all applicable Class E tests passed:

RESULT	CHAPTER												
	2	3	4	5	6	7	8	9	10	11	12	14	TOTAL
Passed	1	3	2	1	0	0	0	0	0	0	0	1	8
Failed	0	0	0	0	0	0	0	0	0	0	0	0	0
Inapplicable	0	0	0	0	0	0	0	0	0	0	0	0	0
Anomalous	0	0	0	0	0	0	0	0	0	0	0	0	0
Withdrawn	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	3	2	1	0	0	0	0	0	0	0	1	8

Information obtained from the Class E tests is detailed in section 2.4, IMPLEMENTATION CHARACTERISTICS.

TEST RESULTS

2.1.6 Class L Tests

Class L tests check that incomplete or illegal Ada programs involving multiple, separately compiled units are detected and not allowed to execute. Class L tests are compiled separately and execution is attempted. A Class L test passes if it is rejected at link time and the test does not execute.

The following table shows that the applicable Class L test passed:

RESULT	CHAPTER												
	2	3	4	5	6	7	8	9	10	11	12	14	TOTAL
Passed	0	0	0	0	0	0	0	0	3	0	0	0	3
Failed	0	0	0	0	0	0	0	0	0	0	0	0	0
Inapplicable	0	0	0	0	0	0	0	0	0	0	0	0	0
Anomalous	0	0	0	0	0	0	0	0	0	0	0	0	0
Withdrawn	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	3	0	0	0	3

TEST RESULTS

2.1.7 Support Units

Two units support the self-checking features of the executable tests: REPORT and CHECK_FILE. The REPORT package provides the mechanism by which executable tests report results. It also provides a set of identity functions that are used to defeat some compiler optimization strategies to cause computations to be made by the target computer instead of by the compiler on the host computer. The CHECK_FILE procedure is used to check the contents of text files written by some of the Class C tests for Chapter 14 of the Ada Standard. The operation of these units is checked by a set of executable tests. These tests produce messages that are examined manually to verify that the units are operating correctly. If these units are not operating correctly, then validation is not attempted.

An applicant is permitted to substitute the body of package REPORT with an equivalent one if for some reason the original version provided by the ACVC cannot be executed on the target computer. Package REPORT was modified for this validation because of a problem with elaboration order. A pragma ELABORATE was added to REPORT to ensure that the body of TEXT_IO is elaborated before any call is made to the TEXT_IO procedure by the body of REPORT.

Package REPORT and procedure CHECK_FILE were not recompiled for this validation for reasons of efficiency. The two program units had been compiled into a "resource library," a special program library that may be shared by many users. Computer time was saved since the units did not have to be copied into the program library used by each test as it compiled. The validation team confirmed that the REPORT and CHECK_FILE units in the resource library operated correctly before testing was begun.

2.2 WITHDRAWN TESTS

Some tests are withdrawn from the ACVC because they do not conform to the Ada Standard or because they use language features whose semantics are still being clarified by the Ada Language Maintenance Committee (LMC). When testing was performed, the following 66 tests had been withdrawn for the reasons indicated below. In those cases under consideration by the Language Maintenance Committee (LMC), a reference is given to an Ada Commentary--e.g., AI-00313.

- . C35904A-B: The elaborations of the subtype declarations for SFX3 and SFX4 in this test raise `NUMERIC_ERROR` in some implementations. The exception is raised on the conversion of the real literals 2.0 and 5.0 to the base type of `FIX`.
- . B38105B-AB, C48006B-B, B74207A-B, and BC3503A-B: These tests require a specific interpretation of the Reference Manual regarding whether an incomplete type can have discriminant constraints before the full type declaration; this interpretation is not fully supported by the Reference Manual or the Language Maintenance Committee.
- . C45521A-B through C45521Y-B (25 tests): Cases C and I define the model interval for the result too narrowly.
- . C48005C-B: Lines 38 and 63 of this test should check that the value of the designated object is null.
- . C64103C-B: This test should raise `CONSTRAINT_ERROR` during the conversion at line 179.
- . C64103D-B: This test involves an issue of whether `CONSTRAINT_ERROR` or `NUMERIC_ERROR` is to be raised. Because the issue could not be resolved quickly, the test was withdrawn from Version 1.6.
- . C64105E-AB and C64105F-AB: These tests should ensure (in case E) that nonnull dimensions of formal and actual parameters belong to both index subtypes (see AI-00313).
- . B66001A-B: This test checks (in section G) that a function without parameters which is equivalent to an enumeration literal in the same declarative region is a redeclaration and as such is forbidden. According to section 8.3, paragraph 17 of the Reference Manual, the explicit declaration of such a function is allowed if an enumeration literal is considered to be an implicitly declared predefined operation. The Reference Manual is not clear on this point. Because the issue could not be resolved quickly, the test was withdrawn from Version 1.6.

TEST RESULTS

- . B67001A-B: This test is missing the "BEGIN NULL; END;" at line 414 needed to complete the block for case H beginning at line 389.
- . B67004A-B: In this test, the default name for a formal generic equality function should not be allowed to be "/" unless an expanded name is used.
- . B74103F-B: This test depends on whether or not a generic formal type declaration declares a type. Because the issue could not be resolved quickly, the test was withdrawn from Version 1.6.
- . C93005A-B, C93005B-B, and C93005C-B: These tests contain a declaration of an integer variable whose initialization is solely for the purpose of raising an exception. Some compilers will not raise this exception due to allowable optimizations.
- . C93007B-B: This test should check for PROGRAM_ERROR rather than TASKING_ERROR (see AI-00149).
- . CA1003B-AB: A compilation that contains an illegal compilation unit may now be rejected as a whole (see AI-00255/05).
- . CA1011A-B: The test objective should be reversed to be consistent with AI-00199.
- . CA1108A-B: A pragma ELABORATE is needed for OTHER_PKG at line 25.
- . CA1108B-B: A pragma ELABORATE is needed for FIRST_PKG at line 39 and for LATER_PKG at line 49.
- . BA2001E-AB: Section 10.2, paragraph 5 of the Reference Manual states, "Simple names of all subunits that have the same ancestor library unit must be distinct identifiers." This test requires that the above conditions be checked when the stub is declared. However, since the Reference Manual uses the term "subunit," it is not clear that the check must be made at the declaration or when the subunit is compiled.
- . CA2009B-B and CA2009E-B: In these tests, the repetition of the main procedure after the subunit body makes the subunit body obsolete. Therefore, an attempt to execute the main procedure will fail.
- . CA2009F-B: The file CA2009F2-B, which is part of this test, is missing from the test suite.
- . BC1013A-B: In this test, the declaration of equality in lines 86 and 87 is illegal because the parameter type T declared in line 11 is not a limited type (see section 6.7, paragraph 4 of the Reference Manual).

TEST RESULTS

- . BC3204A-B, BC3204B-B, BC3204C-B, BC3204D-B, BC3205A-B, BC3205B-B, BC3205C-B, BC3205D-B, and BC3405B-B: Instantiations with types that have default discriminants are legal (see AI-00037).
- . BC3220B-B: This test assumes that instantiated types may be static. Because the issue could not be resolved quickly, the test was withdrawn from Version 1.6.
- . CE2107E-B: This test has a variable, TEMP_HAS_NAME, that should have been initialized to TRUE.
- . CE3603A-B: In this test, the last case is inconsistent with AI-00050. If a string argument is null, no attempt to read is made and END_ERROR is not raised.
- . CE3604A-B: Cases 5, 8, 9, and 11 in this test are inconsistent with AI-00050. SKIP_LINE is called only if the end of the output string has not been met.
- . CE3704M-B: A superfluous SKIP_LINE causes the input and output operations to be out of synchronization.

2.3 INAPPLICABLE TESTS

Some tests do not apply to all compilers because they make use of features that a compiler is not required by the Ada Standard to support. Others may depend on the result of another test that is either inapplicable or withdrawn. For this validation attempt, 182 tests were inapplicable for the reasons indicated:

- . 155 tests were not processed because SYSTEM.MAX_DIGITS was 15. These tests were:
 - C24113L-B.DEP through C24113Y-B.DEP (14 tests)
 - C35705L-B.DEP through C35705Y-B.DEP (14 tests)
 - C35706L-B.DEP through C35706Y-B.DEP (14 tests)
 - C35707L-B.DEP through C35707Y-B.DEP (14 tests)
 - C35708L-B.DEP through C35708Y-B.DEP (14 tests)
 - C35802L-B.DEP through C35802Y-B.DEP (14 tests)
 - C45241L-B.DEP through C45241Y-B.DEP (14 tests)
 - C45321L-B.DEP through C45321Y-B.DEP (14 tests)
 - C45421L-B.DEP through C45421Y-B.DEP (14 tests)
 - C45424L-B.DEP through C45424Y-B.DEP (14 tests)
 - C45621L-B.DEP through C45621Z-B.DEP (15 tests)

TEST RESULTS

- Five tests were inapplicable because this implementation does not support SHORT_INTEGER:

C34001D-B.DEP	B55B09D-AB.DEP	B86001CR-AB.DEP
B52004E-AB.DEP	C55B07B-AB.DEP	

- Five tests were inapplicable because this implementation does not support LONG_INTEGER:

C34001E-B.DEP	B55B09C-AB.DEP	B86001CS-AB.DEP
B52004D-AB.DEP	C55B07A-AB.DEP	

- Three tests were inapplicable because this implementation does not support LONG_FLOAT:

C34001G-B.DEP	C35702B-AB.DEP	B86001CQ-AB.DEP
---------------	----------------	-----------------

- Test C55B16A-AB.DEP makes use of an enumeration representation clause that contains noncontiguous values. Representation specifications for noncontiguous enumeration representations are not supported by this compiler.
- Test B86001DT.AB-TST requires a predefined numeric type other than those defined by the Ada language in package STANDARD. There is no such type for this implementation.
- Test C87B62C-B.DEP is inapplicable because fixed type representation specifications are not supported.
- Test C86001F-B.DEP redefines package SYSTEM, but TEXT_IO is made obsolete by this new definition in this implementation.
- Test CA2009C-B.DEP compiles generic subunits in separate compilation files. Separate compilation of generic specifications and bodies is not supported by this compiler.
- Tests AE2101C-B.DEP, CE2201D-B.ADA, CE2201E-B.DEP, and CE2401D-B.DEP use instantiation of SEQUENTIAL_IO or DIRECT_IO with unconstrained array types or unconstrained record types with nondefaulted discriminants which is not supported by this compiler.
- Tests D55A03E-AB.ADA, D55A03F-AB.ADA, D55A03G-AB.ADA, and D55A03H-AB.ADA contain over 30 levels of loop nesting which exceed the capacity of this compiler.
- Test D56001B-AB.ADA has 65 levels of embedded blocks which exceed the capacity of this compiler.

2.4 IMPLEMENTATION CHARACTERISTICS

One of the purposes of validating is to determine the behavior of a compiler in those areas of the Ada Standard that permit implementations to differ. Class D and E tests specifically check for such implementation differences. However, inapplicable tests in other classes also characterize an implementation. This compiler is characterized by the following interpretations of the Ada Standard:

- Nongraphic characters.

Nongraphic characters are defined in the ASCII character set but are not permitted in Ada programs, even within character strings. The compiler correctly recognizes these characters as illegal in Ada compilations. The characters are not printed in the output listing.

- Capacities.

The compiler correctly processes compilations containing loop statements nested to 17 levels, procedures nested to 17 levels, and declarative parts containing 723 variables. A test program with 31 levels of nested blocks exceeds the compiler's capacity.

- Universal integer calculations.

An implementation is allowed to reject universal integer calculations having values that exceed `SYSTEM.MAX_INT`. This implementation does not reject such calculations and processes them correctly.

- Predefined types.

This implementation does not support the predefined types `SHORT_INTEGER`, `LONG_INTEGER`, and `LONG_FLOAT`. It does support the predefined numeric type `SHORT_FLOAT`.

- Based literals.

An implementation is allowed to reject a based literal with value exceeding `SYSTEM.MAX_INT` during compilation or it may raise `NUMERIC_ERROR` during execution. This compiler raises `NUMERIC_ERROR` during execution.

- Array types.

An implementation is allowed to raise `NUMERIC_ERROR` for an array having a `'LENGTH` that exceeds `STANDARD.INTEGER'LAST` and/or `SYSTEM.MAX_INT`. When an array type is declared with an index range exceeding `INTEGER` values and with a component that is a null `BOOLEAN` array, this compiler does not raise any exception.

TEST RESULTS

When an array type is declared with an index range exceeding `SYSTEM.MAX_INT` values and with a component that is a null `BOOLEAN` array, this compiler does not raise any exception.

A packed `BOOLEAN` array of length `INTEGER'LAST+3` raises `NUMERIC_ERROR` when the array type is declared. A packed two-dimensional `BOOLEAN` array with `INTEGER'LAST+3` components raises `NUMERIC_ERROR` when the array type is declared.

A null array with one dimension of length exceeding `INTEGER'LAST` does not raise `NUMERIC_ERROR` when the array type is declared or when array objects are assigned.

In assignment of one-dimensional array types, the entire expression is not evaluated before `CONSTRAINT_ERROR` is raised when checking whether the expression's subtype is compatible with the target's subtype. In assignment of two-dimensional array types, the entire expression is not evaluated before `CONSTRAINT_ERROR` is raised when checking whether the expression's subtype is compatible with the target's subtype. In assignment of record types with discriminants, the entire expression is not evaluated before `CONSTRAINT_ERROR` is raised when checking whether the expression's subtype is compatible with the target's subtype.

- . Discriminated types.

An incompletely declared type with discriminants may be used in an access type definition and constrained either there or in later subtype indications.

- . Aggregates.

When evaluating the choices of a multi-dimensional aggregate, all choices are evaluated before checking against the index type.

When evaluating an aggregate containing subaggregates, all choices are not evaluated before being checked for identical bounds.

- . Representation clauses.

'SMALL length clauses are not supported.

Enumeration representation clauses are not supported.

- . Package CALENDAR.

`TIME_OF` and `SPLIT` may be inverses when `SECONDS` is a nonmodel number.

TEST RESULTS

- . Pragnas.

Pragma `INLINE` is supported for procedures and for functions.

- . Input/Output.

Package `SEQUENTIAL_IO` cannot be instantiated with unconstrained array types or record types with discriminants when the discriminants do not have defaults. Package `DIRECT_IO` cannot be instantiated with unconstrained array types or record types with discriminants without defaults.

More than one internal file can be associated with each external file for `DIRECT_IO`, `TEXT_IO`, and `SEQUENTIAL_IO` for both reading and writing. An external file associated with more than one internal file can be deleted.

An existing text file can be opened in `OUT_FILE` mode and can be created in both `OUT_FILE` and `IN_FILE` modes.

Temporary files are given a name but are deleted when they are closed.

CHAPTER 3

COMPILER ANOMALIES AND NONCONFORMANCES

3.1 ANOMALIES

An anomaly is a test result that, given the pre-validation analysis, was not expected during formal validation but which is judged allowable by the AVF and the AVO under the circumstances of the validation. No anomalies were detected in this validation attempt.

3.2 NONCONFORMANCES

Any discrepancy between expected test results and actual test results is considered a nonconformance. No nonconformances were detected in this validation attempt.

CHAPTER 4

ADDITIONAL TESTING INFORMATION

4.1 PRE-VALIDATION

Prior to validation, a set of test results for ACVC 1.6 produced by the Intermetrics, Inc. I2Ada Compiler, Version 17.08 was submitted to the AVF by the applicant for pre-validation review. Analysis of these results demonstrated that the compiler successfully passed all applicable tests.

4.2 TEST SITE

Tests were compiled and executed at Intermetrics, Inc., Cambridge MA.

4.3 TEST TAPE INFORMATION

A test tape containing ACVC Version 1.6 was taken on-site by the validation team. This tape contained all tests applicable to this validation as well as all tests inapplicable to this validation except for any Class C tests that require floating-point precision exceeding the maximum value supported by the implementation. Tests that were withdrawn from ACVC Version 1.6 were not written to the tape. Tests that make use of values that are specific to an implementation were customized before being written to the tape. Any split tests were also included on the test tape so that no editing of the test files was necessary when the validation team arrived on-site.

The test tape was written in ANSI standard format and was copied onto the IBM 4341 using a utility program developed by Intermetrics for that purpose. The test files were copied from tape to a disk that is shared by the two computers used to run the tests. The tests were loaded to disk in less than an hour.

ADDITIONAL TESTING INFORMATION

4.4 TESTING LOGISTICS

Once all tests had been loaded to disk, processing was begun using command scripts provided by Intermetrics, Inc.

Tests were run in chapter order. The Class B and L tests were run on the IBM 4341 while the Class A, C, D, and E tests were run on the IBM 3083. A new program library was used for each ACVC test. Testing was controlled using a batch facility that sequenced the commands to process the tests and then collected their standard output and sent it via electronic mail to the submitter of the job. The mail files were archived on magnetic tape.

Packages REPORT and CHECK_FILE were not compiled using the file on the test tape but were compiled using the files received by Intermetrics on an ACVC distribution tape. Package body REPORT was modified by Intermetrics to include "pragma ELABORATE (TEXT_IO);" to ensure that the body of TEXT_IO was elaborated before the body of package REPORT. This modification was approved by the AVO prior to validation testing. Both packages were installed in a resource library with package STANDARD, package SYSTEM, package TEXT_IO, as well as other predefined packages. The tests were run using REPORT and CHECK_FILE from the resource library, rather than using a copy of the packages from the program library, making the tests run more efficiently.

One test, C86001F, had to be run in a special environment that did not make use of the resource library. This test recompiles package SYSTEM which makes package TEXT_IO obsolete for this implementation. Because a unit in a resource library is protected and cannot be made obsolete, this test could not be run properly. Therefore, a new program library was created, and the contents of the resource library used to run the other tests were copied into it. The test was then compiled and exhibited the expected behavior.

4.5 TESTING DURATION

The ACVC has not been designed for use in measuring compiler performance. The information reported here thus merely describes the duration of the on-site conformity testing, and is not necessarily an indication of the subject system's performance for any particular application.

The tests run on the IBM 3083 required about 60 hours to process. The tests run on the IBM 4341 took about 42 hours to process. Both of the computers were used primarily, but not exclusively, for the validation effort.

CHAPTER 5

SUMMARY AND CONCLUSIONS

The Ada Validation Facility identified 1914 tests in Version 1.6 of the Ada Compiler Validation Capability as applicable to the Intermetrics, Inc. I2Ada Compiler, Version 17.08. All applicable tests were passed by the compiler.

The Ada Validation Facility concludes that these results demonstrate acceptable conformance to the Ada Standard.

APPENDIX A
COMPLIANCE STATEMENT

The only allowed implementation dependencies correspond to implementation-dependent pragmas and attributes, to certain machine-dependent conventions as mentioned in chapter 13 of MIL-STD-1815A, and to certain allowed restrictions on representation clauses. The implementation-dependent characteristics of the Intermetrics, Inc. I2Ada Compiler, Version 17.08 are described in the following sections which discuss topics one through eight as stated in Appendix F of the Ada Language Reference Manual (LRM) (ANSI/MIL-STD-1815A).

(1) Implementation-Dependent Pragmas

<u>Pragma</u>	<u>Form, Placement, Effect</u>
LINK_NAME	Takes SubprogramName and LinkName as arguments. This pragma is allowed at the place as specified in LRM B(5) for pragma INTERFACE. This pragma specifies that calls on the given subprogram will be made via the specified external symbol.

(2) Implementation-Dependent Attributes

There are no implementation-dependent attributes.

COMPLIANCE STATEMENT

(3) Package SYSTEM

The specification for package SYSTEM is

package SYSTEM is

```
type ADDRESS is private;
type ADDRESS_OFFSET is new INTEGER;
type ADDRESS_SEGMENT is new INTEGER;

function "+"(addr : ADDRESS; offset : ADDRESS_OFFSET)
return ADDRESS;

function "+"(offset : ADDRESS_OFFSET; addr : ADDRESS)
return ADDRESS;
-- Provide addition between addresses and
-- (within-segment) offset

function "-"(left, right : ADDRESS) return
ADDRESS_OFFSET;
-- raises CONSTRAINT_ERROR if segments differ

function OFFSET_OF (addr : ADDRESS) return
ADDRESS_OFFSET;
-- Extract offset part of ADDRESS

function SEGMENT_OF (addr : ADDRESS) return
ADDRESS_SEGMENT;
-- Extract segment part of zero ADDRESS
-- on targets with unsegmented address space

function MAKE_ADDRESS (offset : ADDRESS_OFFSET;
segment : ADDRESS_SEGMENT := 0) return ADDRESS;
-- build address given offset and segment

type NAME is (UTS, MVS, PRIME, AF1750A);

SYSTEM_NAME : constant NAME := UTS;

type Supported_Language_Name is (
-- The following are "foreign" languages:
    ASSEMBLER,
    FORTRAN_MAIN,
    FORTRAN,
    COBOL_MAIN,
    COBOL,
    JOVIAL_MAIN,
    PL1_MAIN,
    AIE_ASSEMBLER,
-- NOT A "foreign" language - uses AIE RTS
    UNSPECIFIED_LANGUAGE_MAIN, -- FRM memorial enumerals
    UNSPECIFIED_LANGUAGE); -- FRM memorial enumerals
```

COMPLIANCE STATEMENT

```
STORAGE_UNIT : constant := 8;  
MEMORY_SIZE  : constant := 2**24;
```

-- System-Dependent Named Numbers:

```
MIN_INT      : constant := INTEGER'POS(INTEGER'FIRST);  
MAX_INT      : constant := INTEGER'POS(INTEGER'LAST);  
MAX_DIGITS   : constant := 15;  
MAX_MANTISSA : constant := 31;  
FINE_DELTA   : constant := 2.0**(-31);  
TICK         : constant := 1.0;
```

-- Other System-Dependent Declarations

```
subtype PRIORITY is INTEGER range -127..127;  
private  
  type ADDRESS is access INTEGER;  
  -- Guarantees same size as access type  
end SYSTEM;
```

(4) Representation Clause Restrictions

There are no restrictions except as follows:

- A. Type 'SMALL (fixed-point types) is not allowed.
- B. Representation clauses for enumeration types are not allowed.
- C. Address clauses are not allowed.

(5) Conventions

There are no implementation-generated names denoting implementation-dependent (record) components.

(6) Address Clauses

Address clauses are not allowed.

(7) Unchecked Conversions

The source and target values must both be of an integer, enumeration, or access type.

COMPLIANCE STATEMENT

(8) Input-Output Packages

The following are implementation-dependent characteristics of the input-output packages.

SEQUENTIAL IO Package

SEQUENTIAL_IO cannot be instantiated for an unconstrained array type or for an unconstrained formal record type lacking default values for its discriminants.

DIRECT IO Package

type COUNT is range 0..(2**31)-1;

DIRECT_IO cannot be instantiated for an unconstrained array type or for an unconstrained formal record type lacking default values for its discriminants.

TEXT IO Package

type COUNT is range 0..(2**31)-1;

subtype FIELD is INTEGER range 0..(2**31)-1;

LOW LEVEL IO

Low_Level_IO is not provided.

(9) Package STANDARD

```
type INTEGER is range -(2**31)..(2**31)-1;

-- list any additional predefined integer types

type FLOAT is digits 15 range
  -16#0.FFFFFFFFFFFFFFFF#E63 .. 16#0.FFFFFFFFFFFFFFFF#E63;

type SHORT_FLOAT is digits 6 range
  -16#0.FFFFFFFF#E63 .. 16#0.FFFFFFFF#E63;

-- list any additional predefined floating-point types

type DURATION is delta 2.0**(-14) range -86400.0 .. 86400.0;

-- list all other predefined types
```

(10) File Names

File names use standard operating system conventions. No alternate specifications (such as abbreviations) are allowed for file names.

APPENDIX B

TEST PARAMETERS

Certain tests in the ACVC make use of implementation-dependent values, such as the maximum length of an input line and invalid file names. A test that makes use of such values is identified by the extension .TST in its file name. Actual values to be substituted are identified by names that begin with a dollar sign. A value is substituted for each of these names before the test is run. The values used for this validation are given below.

<u>Name and Meaning</u>	<u>Value</u>
\$MAX_IN_LEN Maximum input line length permitted by the implementation.	255
\$BIG_ID1 Identifier of size MAX_IN_LEN with varying last character.	(1..254 => 'A', 255 => '1')
\$BIG_ID2 Identifier of size MAX_IN_LEN with varying last character.	(1..254 => 'A', 255 => '2')
\$BIG_ID3 Identifier of size MAX_IN_LEN with varying middle character.	(1..154 => 'A', 155 => '3', 156..255 => 'A')
\$BIG_ID4 Identifier of size MAX_IN_LEN with varying middle character.	(1..154 => 'A', 155 => '4', 156..255 => 'A')

TEST PARAMETERS

<u>Name and Meaning</u>	<u>Value</u>
\$NEG_BASED_INT A based integer literal whose highest order non-zero bit falls in the sign bit position of the representation for SYSTEM.MAX_INT.	16#FFFFFFFE#
\$BIG_INT_LIT An integer literal of value 298 with enough leading zeroes so that it is MAX_IN_LEN characters long.	(1..252 => '0', 253..255 => '298')
\$BIG_REAL_LIT A real literal that can be either of floating- or fixed-point type, has value 690.0, and has enough leading zeroes to be MAX_IN_LEN characters long.	(1..249 => '0', 250..255 => '69.0E1')
\$EXTENDED_ASCII_CHARS A string literal containing all the ASCII characters with printable graphics that are not in the basic 55 Ada character set.	"abcdefghijklmnopqrstuvwxyz" & "!\$%?@[c]#'{ }-~"
\$NON_ASCII_CHAR_TYPE An enumerated type definition for a character type whose literals are the identifier NON_NULL and all non-ASCII characters with printable graphics.	(NON_NULL)
\$BLANKS Blanks of length MAX_IN_LEN - 20	(1..235 => ' ')
\$MAX_DIGITS Maximum digits supported for floating-point types.	15
\$NAME A name of a predefined numeric type other than FLOAT, INTEGER, SHORT_FLOAT, SHORT_INTEGER, LONG_FLOAT, or LONG_INTEGER.	NO_SUCH_TYPE

TEST PARAMETERS

<u>Name and Meaning</u>	<u>Value</u>
\$INTEGER_FIRST The universal integer literal expression whose value is INTEGER'FIRST.	-2147483648
\$INTEGER_LAST The universal integer literal expression whose value is INTEGER'LAST.	2147483647
\$LESS_THAN_DURATION A universal real value that lies between DURATION'BASE'FIRST and DURATION'FIRST or any value in the range of DURATION.	-90_000.0
\$GREATER_THAN_DURATION A universal real value that lies between DURATION'BASE'LAST and DURATION'LAST or any value in the range of DURATION.	90_000.0
\$LESS_THAN_DURATION_BASE_FIRST The universal real value that is less than DURATION'BASE'FIRST.	-10_000_000.0
\$GREATER_THAN_DURATION_BASE_LAST The universal real value that is greater than DURATION'BASE'LAST.	10_000_000.0
\$COUNT_LAST Value of COUNT'LAST in TEXT_IO package.	2147483647
\$FIELD_LAST Value of FIELD'LAST in TEXT_IO package.	2147483647
\$FILE_NAME_WITH_BAD_CHARS An illegal external file name that either contains invalid characters or is too long.	X}}!@/#\$%-Y

TEST PARAMETERS

<u>Name and Meaning</u>	<u>Value</u>
\$FILE_NAME_WITH_WILD_CARD_CHAR An external file name that either contains a wild card character or is too long.	WILDCARDS/DONT/MATTER
\$ILLEGAL_EXTERNAL_FILE_NAME1 Illegal external file name.	BAD-CHARAC/TER
\$ILLEGAL_EXTERNAL_FILE_NAME2 Illegal external file names.	NO/MUCH-TOO-LONG-NAME-FOR-A-FILE

APPENDIX C
COMMAND SCRIPTS

Command scripts used to
run the ACVC are not
available for publica-
tion.

APPENDIX D

COMPLETE LIST OF TESTS AND RESULTS

This Appendix presents a complete list of the ACVC test files used in the validation attempt, presented in order by ACVC Implementers' Guide section and objective. Each test name indicates the class of the test and which test objective in the ACVC Implementers' Guide applies to the test.

Each test has a name that identifies the section of the Ada Standard addressed by the test objective. The name of a test is interpreted according to the table below, where the first column indicates the character position in the name and the second column, the meaning of that position:

<u>POS</u>	<u>MEANING</u>
1	Test class: A, B, C, D, E, L.
2	Implementers' Guide chapter number (in hexadecimal).
3	Implementers' Guide section number within a chapter (in Hexadecimal).
4	Implementers' Guide subsection number (in hexadecimal).
5-6	Implementers' Guide Test Objective number (in decimal).
7	Test sequence letter.
8	[Optional] Compilation sequence digit or letter.
9	[Optional] Main program designator in the case of a test having multiple compilation units.

Characters 8 and 9 are only present for tests that consist of several separately compiled units. A series of separately compiled units is counted as one test for reporting purposes. The eighth character indicates the order in which the units are to be compiled, with unit zero being compiled first. The ninth character is only present for a file containing a main program for a test comprised of multiple files and is always M.

COMPLETE LIST OF TESTS AND RESULTS

The suffix -AB means the test was written prior to release of the ANSI Standard and is also valid for the version of Ada published in July 1980. The suffix -B means the test was written specifically for the ANSI Standard. Tests without a suffix have not yet had their names revised to -AB.

A file name ending with the extension .TST indicates that the test depends on one or more of the implementation-dependent parameters listed in Appendix B. A file name ending with .DEP indicates that the test is not necessarily applicable to all implementations because it depends upon the support of language features that a compiler may legally not implement.

The result for each file in ACVC Version 1.6 is given in the following pages, where:

- P indicates Passed.
- F indicates Failed.
- N/A indicates Not Applicable to this implementation.
- W indicates Withdrawn due to test errors.
- C indicates Compiled without error.
- A indicates Anomalous.

Indented names are separately compiled units (subtests) of the test under which they appear. A sequence of indented subtest names comprise one test for reporting purposes.

COMPLETE LIST OF TESTS AND RESULTS

Support Units

VAR_STRINGS_SPEC.ADA	P
VAR_STRINGS_BODY.ADA	P
REPORT_SPEC-AB.ADA	P
REPORT_BODY-B.ADA	P
CHECK_FILE-B.ADA	P
CZ1101A-AB.ADA	P
CZ1102A-AB.ADA	P
CZ1103A-B.ADA	P
CZ1201A-AB.ADA	P
CZ1201B-AB.ADA	P
CZ1201C-AB.ADA	P
CZ1201D-AB.ADA	P

COMPLETE LIST OF TESTS AND RESULTS

Chapter 2

A21001A.ADA	P	B23002A.ADA	P	C24113C-B.DEP	P
A22002A.ADA	P	B23003D-AB.TST	P	C24113D-B.DEP	P
A26004A.TST	P	B23003E-AB.TST	P	C24113E-B.DEP	P
A29002A-B.ADA	P	B23003F-AB.TST	P	C24113F-B.DEP	P
A29002B-B.ADA	P	B23004A.ADA	P	C24113G-B.DEP	P
A29002C-B.ADA	P	B23004B.ADA	P	C24113H-B.DEP	P
A29002D-B.ADA	P	B24001A.ADA	P	C24113I-B.DEP	P
A29002E-B.ADA	P	B24001B.ADA	P	C24113J-B.DEP	P
A29002F-B.ADA	P	B24001C.ADA	P	C24113K-B.DEP	P
A29002G-B.ADA	P	B24005A.ADA	P	C24113L-B.DEP	N/A
A29002H-B.ADA	P	B24005B.ADA	P	C24113M-B.DEP	N/A
A29002I-B.ADA	P	B24104A.ADA	P	C24113N-B.DEP	N/A
A29002J-B.ADA	P	B24104B.ADA	P	C24113O-B.DEP	N/A
B22001A-AB.TST	P	B24104C.ADA	P	C24113P-B.DEP	N/A
B22001B-AB.TST	P	B26002A.ADA	P	C24113Q-B.DEP	N/A
B22001C-AB.TST	P	B26005A.ADA	P	C24113R-B.DEP	N/A
B22001D-AB.TST	P	B29001A-B.ADA	P	C24113S-B.DEP	N/A
B22001E-AB.TST	P	C23001A.ADA	P	C24113T-B.DEP	N/A
B22001F-AB.TST	P	C23003A.TST	P	C24113U-B.DEP	N/A
B22001G-AB.TST	P	C24002A.ADA	P	C24113V-B.DEP	N/A
B22001H-AB.ADA	P	C24002B.ADA	P	C24113W-B.DEP	N/A
B22001I-AB.TST	P	C24002C.ADA	P	C24113X-B.DEP	N/A
B22001J-AB.TST	P	C24003A.TST	P	C24113Y-B.DEP	N/A
B22001K-AB.TST	P	C24003B.TST	P	C26002B.ADA	P
B22001L-AB.TST	P	C24003C.TST	P	C26006A-AB.ADA	P
B22001M-AB.TST	P	C24102A.ADA	P	C26008A-AB.ADA	P
B22001N-AB.TST	P	C24102B.ADA	P	C27001A-AB.ADA	P
B22003A.ADA	P	C24102C.ADA	P	C27002A-B.ADA	P
B22004A.ADA	P	C24103A.ADA	P	D29002K-B.ADA	P
B22004B.ADA	P	C24113A-B.DEP	P	E24101A-B.TST	P
B22004C.ADA	P	C24113B-B.DEP	P		

COMPLETE LIST OF TESTS AND RESULTS

Chapter 3

A32203B-B.ADA	P	B37004G-B.ADA	P	C34001Q-B.ADA	P
A32203C-B.ADA	P	B37101A.ADA	P	C34001R-B.ADA	P
A32203D-B.ADA	P	B37201A.ADA	P	C34001T-B.ADA	P
A34008B-B.ADA	P	B37202A.ADA	P	C34002A-B.ADA	P
A38106D-B.ADA	P	B37202B.ADA	P	C34002B-B.ADA	P
A38106E-B.ADA	P	B37203A.ADA	P	C35104A.ADA	P
B32103A-AB.ADA	P	B37204A-AB.ADA	P	C35504A-AB.ADA	P
B32106A-B.ADA	P	B37205A-AB.ADA	P	C35504B-B.ADA	P
B32201A-B.ADA	P	B37301A.ADA	P	C35505A.ADA	P
B32202A-B.ADA	P	B37301B.ADA	P	C35505B.ADA	P
B32202B-B.ADA	P	B37302A-AB.ADA	P	C35508A-AB.ADA	P
B32202C-B.ADA	P	B37303A.ADA	P	C35508B-B.ADA	P
B33001A.ADA	P	B37307B-AB.ADA	P	C35702A-AB.DEP	P
B33002A.ADA	P	B37309B-AB.ADA	P	C35702B-AB.DEP	N/A
B33003A.ADA	P	B37310B-B.ADA	P	C35703A.ADA	P
B33003B-AB.ADA	P	B37311A-AB.ADA	P	C35704A-AB.ADA	P
B33003C-AB.ADA	P	B38001A.ADA	P	C35704B-AB.ADA	P
B33004A.ADA	P	B38003A-AB.ADA	P	C35704C-AB.ADA	P
B33006A-B.ADA	P	B38008A-B.ADA	P	C35704D-AB.ADA	P
B34001S-AB.ADA	P	B38008B-AB.ADA	P	C35705A-B.DEP	P
B34008A-B.ADA	P	B38101A-B.ADA	P	C35705B-B.DEP	P
B35101A.ADA	P	B38101B-AB.ADA	P	C35705C-B.DEP	P
B35301A.ADA	P	B38103A-B.ADA	P	C35705D-B.DEP	P
B35501A.ADA	P	B38103B-B.ADA	P	C35705E-B.DEP	P
B35506A.ADA	P	B38103C-B.ADA	P	C35705F-B.DEP	P
B35506B.ADA	P	B38103C0	C	C35705G-B.DEP	P
B35701A.TST	P	B38103C1	C	C35705H-B.DEP	P
B35709A.ADA	P	B38103C2	C	C35705I-B.DEP	P
B35A03A-B.ADA	P	B38103C3M	C	C35705J-B.DEP	P
B36101A-AB.ADA	P	B38105A-AB.ADA	P	C35705K-B.DEP	P
B36102A.ADA	P	B38105B-AB.ADA	W	C35705L-B.DEP	N/A
B36103A.ADA	P	B38106A-B.ADA	P	C35705M-B.DEP	N/A
B36105A-B.ADA	P	B38106B-B.ADA	P	C35705N-B.DEP	N/A
B36171A-B.ADA	P	C32107B-B.ADA	P	C35705O-B.DEP	N/A
B36171B-B.ADA	P	C32203A-B.ADA	P	C35705P-B.DEP	N/A
B36171C-AB.ADA	P	C34001A-B.ADA	P	C35705Q-B.DEP	N/A
B36171D-AB.ADA	P	C34001B-B.ADA	P	C35705R-B.DEP	N/A
B36171E-AB.ADA	P	C34001C-B.ADA	P	C35705S-B.DEP	N/A
B36171F-AB.ADA	P	C34001D-B.DEP	N/A	C35705T-B.DEP	N/A
B36171G-AB.ADA	P	C34001E-B.DEP	N/A	C35705U-B.DEP	N/A
B36171H-AB.ADA	P	C34001F-B.DEP	P	C35705V-B.DEP	N/A
B36171I-AB.ADA	P	C34001G-B.DEP	N/A	C35705W-B.DEP	N/A
B36201A-B.ADA	P	C34001H-B.ADA	P	C35705X-B.DEP	N/A
B37003A-AB.ADA	P	C34001I-B.ADA	P	C35705Y-B.DEP	N/A
B37004A-B.ADA	P	C34001K-B.ADA	P	C35706A-B.DEP	P
B37004B-B.ADA	P	C34001L-B.ADA	P	C35706B-B.DEP	P
B37004C-B.ADA	P	C34001M-B.ADA	P	C35706C-B.DEP	P
B37004D-B.ADA	P	C34001N-B.ADA	P	C35706D-B.DEP	P
B37004E-B.ADA	P	C34001O-B.ADA	P	C35706E-B.DEP	P
B37004F-B.ADA	P	C34001P-B.ADA	P	C35706F-B.DEP	P

COMPLETE LIST OF TESTS AND RESULTS

C35706G-B.DEP	P	C35708G-B.DEP	P	C36205B.ADA	P
C35706H-B.DEP	P	C35708H-B.DEP	P	C36205C.ADA	P
C35706I-B.DEP	P	C35708I-B.DEP	P	C36205D.ADA	P
C35706J-B.DEP	P	C35708J-B.DEP	P	C36205E.ADA	P
C35706K-B.DEP	P	C35708K-B.DEP	P	C36205F.ADA	P
C35706L-B.DEP	N/A	C35708L-B.DEP	N/A	C36205G.ADA	P
C35706M-B.DEP	N/A	C35708M-B.DEP	N/A	C36205H.ADA	P
C35706N-B.DEP	N/A	C35708N-B.DEP	N/A	C36205I.ADA	P
C35706O-B.DEP	N/A	C35708O-B.DEP	N/A	C36205J.ADA	P
C35706P-B.DEP	N/A	C35708P-B.DEP	N/A	C36205K.ADA	P
C35706Q-B.DEP	N/A	C35708Q-B.DEP	N/A	C36301A-B.ADA	P
C35706R-B.DEP	N/A	C35708R-B.DEP	N/A	C36301B-AB.ADA	P
C35706S-B.DEP	N/A	C35708S-B.DEP	N/A	C36302A.ADA	P
C35706T-B.DEP	N/A	C35708T-B.DEP	N/A	C36303A.ADA	P
C35706U-B.DEP	N/A	C35708U-B.DEP	N/A	C36304A-B.ADA	P
C35706V-B.DEP	N/A	C35708V-B.DEP	N/A	C36305A-AB.ADA	P
C35706W-B.DEP	N/A	C35708W-B.DEP	N/A	C37005A.ADA	P
C35706X-B.DEP	N/A	C35708X-B.DEP	N/A	C37007A-AB.ADA	P
C35706Y-B.DEP	N/A	C35708Y-B.DEP	N/A	C37008A-B.ADA	P
C35707A-B.DEP	P	C35711A-B.ADA	P	C37008B-B.ADA	P
C35707B-B.DEP	P	C35802A-B.DEP	P	C37011A-B.ADA	P
C35707C-B.DEP	P	C35802B-B.DEP	P	C37012A-AB.ADA	P
C35707D-B.DEP	P	C35802C-B.DEP	P	C37013A-AB.ADA	P
C35707E-B.DEP	P	C35802D-B.DEP	P	C37103A-AB.ADA	P
C35707F-B.DEP	P	C35802E-B.DEP	P	C37105A.ADA	P
C35707G-B.DEP	P	C35802F-B.DEP	P	C37208A-B.ADA	P
C35707H-B.DEP	P	C35802G-B.DEP	P	C37208B-AB.ADA	P
C35707I-B.DEP	P	C35802H-B.DEP	P	C37209A.ADA	P
C35707J-B.DEP	P	C35802I-B.DEP	P	C37304A-AB.ADA	P
C35707K-B.DEP	P	C35802J-B.DEP	P	C37305A.ADA	P
C35707L-B.DEP	N/A	C35802K-B.DEP	P	C37306A.ADA	P
C35707M-B.DEP	N/A	C35802L-B.DEP	N/A	C37307A-AB.ADA	P
C35707N-B.DEP	N/A	C35802M-B.DEP	N/A	C37309A-AB.ADA	P
C35707O-B.DEP	N/A	C35802N-B.DEP	N/A	C37310A-AB.ADA	P
C35707P-B.DEP	N/A	C35802O-B.DEP	N/A	C38004A.ADA	P
C35707Q-B.DEP	N/A	C35802P-B.DEP	N/A	C38005A-B.ADA	P
C35707R-B.DEP	N/A	C35802Q-B.DEP	N/A	C38006A-B.ADA	P
C35707S-B.DEP	N/A	C35802R-B.DEP	N/A	C38007A-B.ADA	P
C35707T-B.DEP	N/A	C35802S-B.DEP	N/A	C38102A-AB.ADA	P
C35707U-B.DEP	N/A	C35802T-B.DEP	N/A	C38102B-B.ADA	P
C35707V-B.DEP	N/A	C35802U-B.DEP	N/A	C38102C-B.ADA	P
C35707W-B.DEP	N/A	C35802V-B.DEP	N/A	E36202A-B.ADA	P
C35707X-B.DEP	N/A	C35802W-B.DEP	N/A	E36202B-B.ADA	P
C35707Y-B.DEP	N/A	C35802X-B.DEP	N/A	E38104A-B.ADA	P
C35708A-B.DEP	P	C35802Y-B.DEP	N/A		
C35708B-B.DEP	P	C35904A-B.ADA	W		
C35708C-B.DEP	P	C36172A-B.ADA	P		
C35708D-B.DEP	P	C36174A-B.ADA	P		
C35708E-B.DEP	P	C36204A-B.ADA	P		
C35708F-B.DEP	P	C36205A.ADA	P		

COMPLETE LIST OF TESTS AND RESULTS

Chapter 4

B41101A-B.ADA	P	B45208A-AB.ADA	P	C41303F-B.ADA	P
B41101C-AB.ADA	P	B45208B-B.ADA	P	C41303G-B.ADA	P
B41102A-AB.ADA	P	B45208C-B.ADA	P	C41303I-B.ADA	P
B41102B-B.ADA	P	B45208G-AB.ADA	P	C41303J-B.ADA	P
B41102C-B.ADA	P	B45208H-B.ADA	P	C41303K-B.ADA	P
B41201A-B.ADA	P	B45208I-B.ADA	P	C41303M-B.ADA	P
B41201C.ADA	P	B45208M-AB.ADA	P	C41303N-B.ADA	P
B41202A-B.ADA	P	B45208N-AB.ADA	P	C41303O-B.ADA	P
B41202B-AB.ADA	P	B45208S-AB.ADA	P	C41303Q-B.ADA	P
B41202C-B.ADA	P	B45208T-AB.ADA	P	C41303R-B.ADA	P
B41202D-B.ADA	P	B45261A-AB.ADA	P	C41303S-B.ADA	P
B41302A-AB.ADA	P	B45261B-AB.ADA	P	C41303U-B.ADA	P
B41302B-AB.ADA	P	B45261C-AB.ADA	P	C41303V-B.ADA	P
B42004A-B.ADA	P	B45261D-AB.ADA	P	C41303W-B.ADA	P
B43101A-B.ADA	P	B45402A.ADA	P	C41304A-B.ADA	P
B43201A-B.ADA	P	B45522A.ADA	P	C41306A-B.ADA	P
B43201B-B.ADA	P	B45533A-AB.ADA	P	C41306B-B.ADA	P
B43201C-B.ADA	P	B48001A-B.ADA	P	C41306C-B.ADA	P
B43201D-B.ADA	P	B48001B-B.ADA	P	C42005A-B.ADA	P
B43202A-B.ADA	P	B48002A-B.ADA	P	C42006A-B.ADA	P
B43202B-B.ADA	P	B48002B-B.ADA	P	C43103A-B.ADA	P
B43202C-B.ADA	P	B48002C-B.ADA	P	C43103B-B.ADA	P
B43203A-B.ADA	P	B48002D-B.ADA	P	C43107A-B.ADA	P
B43203B-B.ADA	P	B48002E-B.ADA	P	C43205A-B.ADA	P
B44001A-B.ADA	P	B48002F-B.ADA	P	C43205B-B.ADA	P
B44002A-B.ADA	P	B48002G-B.ADA	P	C43205C-B.ADA	P
B44002B-B.ADA	P	B48003A-B.ADA	P	C43205D-B.ADA	P
B44002C.ADA	P	B48003B-B.ADA	P	C43205E-B.ADA	P
B45102A-AB.ADA	P	B48003C-B.ADA	P	C43205F-B.ADA	P
B45203A.ADA	P	B48003D-B.ADA	P	C43205G-B.ADA	P
B45203B-AB.ADA	P	B48003E-B.ADA	P	C43205H-B.ADA	P
B45205A-AB.ADA	P	B4A006A-B.ADA	P	C43205I-B.ADA	P
B45206A-AB.ADA	P	B4A016A.ADA	P	C43205J-B.ADA	P
B45206B-B.ADA	P	C41101D-B.ADA	P	C43205K-B.ADA	P
B45207A-AB.ADA	P	C41103A-B.ADA	P	C43206A-B.ADA	P
B45207B-B.ADA	P	C41103B-B.ADA	P	C43207A-B.ADA	P
B45207C-B.ADA	P	C41105A-B.ADA	P	C43207B-B.ADA	P
B45207D-B.ADA	P	C41106A-B.ADA	P	C43207C-B.ADA	P
B45207G-B.ADA	P	C41107A-AB.ADA	P	C43207D-B.ADA	P
B45207H-B.ADA	P	C41201D-B.ADA	P	C43208A-B.ADA	P
B45207I-B.ADA	P	C41203A-B.ADA	P	C43208B-B.ADA	P
B45207J-B.ADA	P	C41203B-B.ADA	P	C43210A-B.ADA	P
B45207M-AB.ADA	P	C41204A.ADA	P	C43211A-B.ADA	P
B45207N-AB.ADA	P	C41205A-B.ADA	P	C43212A-B.ADA	P
B45207O-AB.ADA	P	C41206A.ADA	P	C43212C-B.ADA	P
B45207P-B.ADA	P	C41301A-B.ADA	P	C43213A-B.ADA	P
B45207S-AB.ADA	P	C41303A-B.ADA	P	C43214A-B.ADA	P
B45207T-AB.ADA	P	C41303B-B.ADA	P	C43214B-B.ADA	P
B45207U-AB.ADA	P	C41303C-B.ADA	P	C43214C-B.ADA	P
B45207V-B.ADA	P	C41303E-B.ADA	P	C43214D-B.ADA	P

COMPLETE LIST OF TESTS AND RESULTS

C43214E-B.ADA	P	C45241X-B.DEP	N/A	C45421J-B.DEP	P
C43214F-B.ADA	P	C45241Y-B.DEP	N/A	C45421K-B.DEP	P
C43215A-B.ADA	P	C45264A-B.ADA	P	C45421L-B.DEP	N/A
C43215B-B.ADA	P	C45274A-AB.ADA	P	C45421M-B.DEP	N/A
C45101A.ADA	P	C45274B-AB.ADA	P	C45421N-B.DEP	N/A
C45101B.ADA	P	C45274C-AB.ADA	P	C45421O-B.DEP	N/A
C45101C.ADA	P	C45303A-B.ADA	P	C45421P-B.DEP	N/A
C45101E.ADA	P	C45321A-B.DEP	P	C45421Q-B.DEP	N/A
C45101G-AB.ADA	P	C45321B-B.DEP	P	C45421R-B.DEP	N/A
C45101H-AB.ADA	P	C45321C-B.DEP	P	C45421S-B.DEP	N/A
C45101I.ADA	P	C45321D-B.DEP	P	C45421T-B.DEP	N/A
C45103A-AB.ADA	P	C45321E-B.DEP	P	C45421U-B.DEP	N/A
C45103B-AB.ADA	P	C45321F-B.DEP	P	C45421V-B.DEP	N/A
C45103C-AB.ADA	P	C45321G-B.DEP	P	C45421W-B.DEP	N/A
C45104A.ADA	P	C45321H-B.DEP	P	C45421X-B.DEP	N/A
C45105A-AB.ADA	P	C45321I-B.DEP	P	C45421Y-B.DEP	N/A
C45105B-B.ADA	P	C45321J-B.DEP	P	C45424A-B.DEP	P
C45106A.ADA	P	C45321K-B.DEP	P	C45424B-B.DEP	P
C45201A.ADA	P	C45321L-B.DEP	N/A	C45424C-B.DEP	P
C45201B.ADA	P	C45321M-B.DEP	N/A	C45424D-B.DEP	P
C45202A-AB.ADA	P	C45321N-B.DEP	N/A	C45424E-B.DEP	P
C45210A.ADA	P	C45321O-B.DEP	N/A	C45424F-B.DEP	P
C45220A.ADA	P	C45321P-B.DEP	N/A	C45424G-B.DEP	P
C45220B.ADA	P	C45321Q-B.DEP	N/A	C45424H-B.DEP	P
C45220C.ADA	P	C45321R-B.DEP	N/A	C45424I-B.DEP	P
C45220D.ADA	P	C45321S-B.DEP	N/A	C45424J-B.DEP	P
C45220E-B.ADA	P	C45321T-B.DEP	N/A	C45424K-B.DEP	P
C45241A-B.DEP	P	C45321U-B.DEP	N/A	C45424L-B.DEP	N/A
C45241B-B.DEP	P	C45321V-B.DEP	N/A	C45424M-B.DEP	N/A
C45241C-B.DEP	P	C45321W-B.DEP	N/A	C45424N-B.DEP	N/A
C45241D-B.DEP	P	C45321X-B.DEP	N/A	C45424O-B.DEP	N/A
C45241E-B.DEP	P	C45321Y-B.DEP	N/A	C45424P-B.DEP	N/A
C45241F-B.DEP	P	C45342A-AB.ADA	P	C45424Q-B.DEP	N/A
C45241G-B.DEP	P	C45343A-AB.ADA	P	C45424R-B.DEP	N/A
C45241H-B.DEP	P	C45345A-AB.ADA	P	C45424S-B.DEP	N/A
C45241I-B.DEP	P	C45345B-AB.ADA	P	C45424T-B.DEP	N/A
C45241J-B.DEP	P	C45345C-AB.ADA	P	C45424U-B.DEP	N/A
C45241K-B.DEP	P	C45345D-AB.ADA	P	C45424V-B.DEP	N/A
C45241L-B.DEP	N/A	C45401A.ADA	P	C45424W-B.DEP	N/A
C45241M-B.DEP	N/A	C45401B-AB.ADA	P	C45424X-B.DEP	N/A
C45241N-B.DEP	N/A	C45413A-B.ADA	P	C45424Y-B.DEP	N/A
C45241O-B.DEP	N/A	C45421A-B.DEP	P	C45505A-B.ADA	P
C45241P-B.DEP	N/A	C45421B-B.DEP	P	C45521A-B.DEP	W
C45241Q-B.DEP	N/A	C45421C-B.DEP	P	C45521B-B.DEP	W
C45241R-B.DEP	N/A	C45421D-B.DEP	P	C45521C-B.DEP	W
C45241S-B.DEP	N/A	C45421E-B.DEP	P	C45521D-B.DEP	W
C45241T-B.DEP	N/A	C45421F-B.DEP	P	C45521E-B.DEP	W
C45241U-B.DEP	N/A	C45421G-B.DEP	P	C45521F-B.DEP	W
C45241V-B.DEP	N/A	C45421H-B.DEP	P	C45521G-B.DEP	W
C45241W-B.DEP	N/A	C45421I-B.DEP	P	C45521H-B.DEP	W

COMPLETE LIST OF TESTS AND RESULTS

C45521I-B.DEP	W	C45621L.DEP	N/A	C48008A-B.ADA	P
C45521J-B.DEP	W	C45621M.DEP	N/A	C48008B-B.ADA	P
C45521K-B.DEP	W	C45621N.DEP	N/A	C48008C-B.ADA	P
C45521L-B.DEP	W	C45621O.DEP	N/A	C48008D-B.ADA	P
C45521M-B.DEP	W	C45621P.DEP	N/A	C48009A-B.ADA	P
C45521N-B.DEP	W	C45621Q.DEP	N/A	C48009B-B.ADA	P
C45521O-B.DEP	W	C45621R.DEP	N/A	C48009C-B.ADA	P
C45521P-B.DEP	W	C45621S.DEP	N/A	C48009D-B.ADA	P
C45521Q-B.DEP	W	C45621T.DEP	N/A	C48009E-B.ADA	P
C45521R-B.DEP	W	C45621U.DEP	N/A	C48009F-B.ADA	P
C45521S-B.DEP	W	C45621V.DEP	N/A	C48009G-B.ADA	P
C45521T-B.DEP	W	C45621W.DEP	N/A	C48009H-B.ADA	P
C45521U-B.DEP	W	C45621X.DEP	N/A	C48009I-B.ADA	P
C45521V-B.DEP	W	C45621Y.DEP	N/A	C48009J-B.ADA	P
C45521W-B.DEP	W	C45621Z.DEP	N/A	C48010A-B.ADA	P
C45521X-B.DEP	W	C48004A-B.ADA	P	C48012A-B.ADA	P
C45521Y-B.DEP	W	C48004B-B.ADA	P	C4A001A.ADA	P
C45526A-B.ADA	P	C48004C-B.ADA	P	C4A003A.ADA	P
C45621A.DEP	P	C48004D-B.ADA	P	C4A010A-B.ADA	P
C45621B.DEP	P	C48004E-B.ADA	P	C4A011A.ADA	P
C45621C.DEP	P	C48004F-B.ADA	P	C4A013A.ADA	P
C45621D.DEP	P	C48005A-B.ADA	P	D4A002A-AB.ADA	P
C45621E.DEP	P	C48005B-B.ADA	P	D4A002B.ADA	P
C45621F.DEP	P	C48005C-B.ADA	W	D4A004A-AB.ADA	P
C45621G.DEP	P	C48006A-B.ADA	P	D4A004B.ADA	P
C45621H.DEP	P	C48006B-B.ADA	W	E43211B-B.ADA	P
C45621I.DEP	P	C48007A-B.ADA	P	E43212B-B.ADA	P
C45621J.DEP	P	C48007B-B.ADA	P		
C45621K.DEP	P	C48007C-B.ADA	P		

COMPLETE LIST OF TESTS AND RESULTS

Chapter 5

A54B01A-B.ADA	P	B54A21A-B.ADA	P	B57001A-AB.ADA	P
A54B02A-B.ADA	P	B54A25A-B.ADA	P	B57001B-B.ADA	P
A55B12A-AB.ADA	P	B54A27B-AB.ADA	P	B57001C-AB.ADA	P
A55B13A-AB.ADA	P	B54A27D-AB.ADA	P	B57001D-AB.ADA	P
A55B14A-AB.ADA	P	B54B01B-B.TST	P	B58001A-AB.ADA	P
B51001A-AB.ADA	P	B54B01C-B.ADA	P	B58002A-B.ADA	P
B51003A-AB.ADA	P	B54B02B-B.ADA	P	B58002B-AB.ADA	P
B51004B-B.ADA	P	B54B02C-B.ADA	P	B58002C-AB.ADA	P
B51004C-B.ADA	P	B54B02D-B.ADA	P	B58003A-B.ADA	P
B52002A-B.ADA	P	B54B04A-AB.ADA	P	B58003B-AB.ADA	P
B52002B-AB.ADA	P	B54B04B-AB.ADA	P	B59001A-AB.ADA	P
B52002C-AB.ADA	P	B54B05A-AB.ADA	P	B59001C-AB.ADA	P
B52002D-AB.ADA	P	B55A01A-AB.ADA	P	B59001D-AB.ADA	P
B52002E-AB.ADA	P	B55A01B-AB.ADA	P	B59001E-AB.ADA	P
B52002F-B.ADA	P	B55A01C-AB.ADA	P	B59001F-AB.ADA	P
B52002G-AB.ADA	P	B55A01D-AB.ADA	P	B59001G-AB.ADA	P
B52003A-AB.ADA	P	B55A01E-AB.ADA	P	B59001H-AB.ADA	P
B52003B-AB.ADA	P	B55A01F-AB.ADA	P	B59001I-AB.ADA	P
B52003C-AB.ADA	P	B55A01G-AB.ADA	P	C51002A-AB.ADA	P
B52004A-B.ADA	P	B55A01H-AB.ADA	P	C51004A-B.ADA	P
B52004B-AB.ADA	P	B55A01I-AB.ADA	P	C52001A-B.ADA	P
B52004C-AB.ADA	P	B55A01J-AB.ADA	P	C52001B-AB.ADA	P
B52004D-AB.DEP	N/A	B55A01K-AB.ADA	P	C52001C-AB.ADA	P
B52004E-AB.DEP	N/A	B55A01L-AB.ADA	P	C52005A-AB.ADA	P
B52006A-AB.ADA	P	B55A01M-AB.ADA	P	C52005B-AB.ADA	P
B53001A-AB.ADA	P	B55A01N-AB.ADA	P	C52005C-AB.ADA	P
B53001B-AB.ADA	P	B55A01O-AB.ADA	P	C52005D-AB.ADA	P
B53002A-AB.ADA	P	B55A01P-AB.ADA	P	C52005E-AB.ADA	P
B53002B-AB.ADA	P	B55A01Q-AB.ADA	P	C52005F-AB.ADA	P
B53003A-AB.ADA	P	B55A01R-AB.ADA	P	C52007A-B.ADA	P
B53004A-AB.ADA	P	B55A01S-AB.ADA	P	C52008A-AB.ADA	P
B53009A-AB.ADA	P	B55A01T-AB.ADA	P	C52008B-B.ADA	P
B53009B-AB.ADA	P	B55A01U-AB.ADA	P	C52009A-B.ADA	P
B53009C-AB.ADA	P	B55A01V-AB.ADA	P	C52009B-B.ADA	P
B54A01A-AB.ADA	P	B55B01A-AB.ADA	P	C52010A-AB.ADA	P
B54A01B-AB.ADA	P	B55B01B-AB.ADA	P	C52011A-B.ADA	P
B54A01C-AB.ADA	P	B55B09B-AB.ADA	P	C52011B-AB.ADA	P
B54A01D-AB.ADA	P	B55B09C-AB.DEP	N/A	C52012A-AB.ADA	P
B54A01E-AB.ADA	P	B55B09D-AB.DEP	N/A	C52012B-AB.ADA	P
B54A01F-AB.ADA	P	B55B12B-B.ADA	P	C52013A-B.ADA	P
B54A01G-AB.ADA	P	B55B12C-AB.ADA	P	C52101A-AB.ADA	P
B54A01H-AB.ADA	P	B55B14B-B.ADA	P	C52102A-AB.ADA	P
B54A01I-AB.ADA	P	B55B18A-B.ADA	P	C52102B-AB.ADA	P
B54A01J-AB.ADA	P	B56001A-AB.ADA	P	C52102C-AB.ADA	P
B54A01K-AB.ADA	P	B56001C-AB.ADA	P	C52102D-AB.ADA	P
B54A01L-AB.ADA	P	B56001D-AB.ADA	P	C52103A-AB.ADA	P
B54A05A.ADA	P	B56001E-AB.ADA	P	C52103B-AB.ADA	P
B54A05B.ADA	P	B56001F-AB.ADA	P	C52103C-AB.ADA	P
B54A08A-B.ADA	P	B56001G-AB.ADA	P	C52103F-AB.ADA	P
B54A20A.ADA	P	B56001H-AB.ADA	P	C52103G-AB.ADA	P

COMPLETE LIST OF TESTS AND RESULTS

C52103H-AB.ADA	P	C54A07A-AB.ADA	P	C57002A-AB.ADA	P
C52103K-AB.ADA	P	C54A22A-AB.ADA	P	C57003A-AB.ADA	P
C52103L-AB.ADA	P	C54A23A-B.ADA	P	C57004A-AB.ADA	P
C52103M-AB.ADA	P	C54A24A-AB.ADA	P	C57004B-AB.ADA	P
C52103P-AB.ADA	P	C54A24B.ADA	P	C57004C-AB.ADA	P
C52103Q-AB.ADA	P	C54A26A.ADA	P	C57005A-B.ADA	P
C52103R-AB.ADA	P	C54A27A-AB.ADA	P	C58004A-AB.ADA	P
C52103S-B.ADA	P	C54A41A.ADA	P	C58004B-AB.ADA	P
C52103X-B.ADA	P	C54A42A.ADA	P	C58004C-AB.ADA	P
C52104A-AB.ADA	P	C54A42B.ADA	P	C58004D-B.ADA	P
C52104B-AB.ADA	P	C54A42C.ADA	P	C58004F-AB.ADA	P
C52104C-AB.ADA	P	C54A42D.ADA	P	C58004G-AB.ADA	P
C52104F-AB.ADA	P	C54A42E.ADA	P	C58005A-AB.ADA	P
C52104G-AB.ADA	P	C54A42F.ADA	P	C58005B-AB.ADA	P
C52104H-AB.ADA	P	C54A42G.ADA	P	C58005H-AB.ADA	P
C52104K-AB.ADA	P	C55B03A-AB.ADA	P	C58006A-AB.ADA	P
C52104L-AB.ADA	P	C55B04A-AB.ADA	P	C58006B-AB.ADA	P
C52104M-AB.ADA	P	C55B05A-AB.ADA	P	C59001B-AB.ADA	P
C52104P-AB.ADA	P	C55B06A-AB.ADA	P	C59002A-AB.ADA	P
C52104Q-AB.ADA	P	C55B06B-AB.ADA	P	C59002B-AB.ADA	P
C52104R-AB.ADA	P	C55B07A-AB.DEP	N/A	C59002C-B.ADA	P
C52104X-B.ADA	P	C55B07B-AB.DEP	N/A	D55A03A-AB.ADA	P
C52104Y-B.ADA	P	C55B08A-B.ADA	P	D55A03B-AB.ADA	P
C53004B-B.ADA	P	C55B09A-AB.ADA	P	D55A03C-AB.ADA	P
C53005A-AB.ADA	P	C55B15A-B.ADA	P	D55A03D-AB.ADA	P
C53005B-AB.ADA	P	C55B16A-AB.DEP	N/A	D55A03E-AB.ADA	N/A
C53006A-AB.ADA	P	C55C01A-B.ADA	P	D55A03F-AB.ADA	N/A
C53006B-AB.ADA	P	C55C02A-AB.ADA	P	D55A03G-AB.ADA	N/A
C53007A-AB.ADA	P	C55C02B-AB.ADA	P	D55A03H-AB.ADA	N/A
C53008A-AB.ADA	P	C55C03A-AB.ADA	P	D56001B-AB.ADA	N/A
C54A03A.ADA	P	C55C03B-AB.ADA	P	E52103Y-B.ADA	P
C54A04A-AB.ADA	P	C55D01A-AB.ADA	P		
C54A06A-AB.ADA	P	C56002A-AB.ADA	P		

COMPLETE LIST OF TESTS AND RESULTS

Chapter 6

A62006D-B.ADA	P	B63102A-B.ADA	P	C64103B-B.ADA	P
A63202A-AB.ADA	P	B63103A-B.ADA	P	C64103C-B.ADA	W
B61001A-AB.ADA	P	B64001A-B.ADA	P	C64103D-B.ADA	W
B61001B-AB.ADA	P	B64002A-B.ADA	P	C64103E-B.ADA	P
B61001C-AB.ADA	P	B64002C-B.ADA	P	C64103F-B.ADA	P
B61001D-AB.ADA	P	B64003A-B.ADA	P	C64104A-AB.ADA	P
B61001E-AB.ADA	P	B64004A-B.ADA	P	C64104B-AB.ADA	P
B61001F-AB.ADA	P	B64004B-B.ADA	P	C64104C-AB.ADA	P
B61001G-AB.ADA	P	B64004C-B.ADA	P	C64104D-AB.ADA	P
B61001H-AB.ADA	P	B64004D-B.ADA	P	C64104E-AB.ADA	P
B61001I-AB.ADA	P	B64004E-B.ADA	P	C64104F-AB.ADA	P
B61001J-AB.ADA	P	B64004F-B.ADA	P	C64104G-AB.ADA	P
B61001K-AB.ADA	P	B64006A-B.ADA	P	C64104H-B.ADA	P
B61001L-AB.ADA	P	B64101A-B.ADA	P	C64104I-B.ADA	P
B61001M-AB.ADA	P	B64201A-B.ADA	P	C64104J-B.ADA	P
B61001N-AB.ADA	P	B65001A-B.ADA	P	C64104K-AB.ADA	P
B61001O-AB.ADA	P	B65002A-AB.ADA	P	C64104L-AB.ADA	P
B61001P-AB.ADA	P	B65002B-AB.ADA	P	C64104M-AB.ADA	P
B61001Q-AB.ADA	P	B66001A-B.ADA	W	C64104N-B.ADA	P
B61001R-AB.ADA	P	B66001B-B.ADA	P	C64104O-B.ADA	P
B61001S-AB.ADA	P	B66001C-B.ADA	P	C64105A-AB.ADA	P
B61001T-AB.ADA	P	B67001A-B.ADA	W	C64105B-AB.ADA	P
B61001U-AB.ADA	P	B67001B-B.ADA	P	C64105C-AB.ADA	P
B61001V-AB.ADA	P	B67001C-B.ADA	P	C64105D-AB.ADA	P
B61001W-AB.ADA	P	B67001D-B.ADA	P	C64105E-AB.ADA	W
B61003A-AB.ADA	P	B67001E-B.ADA	P	C64105F-AB.ADA	W
B61006A-B.ADA	P	B67001F-B.ADA	P	C64106A-B.ADA	P
B61011A-B.ADA	P	B67001G-B.ADA	P	C64106B-B.ADA	P
B61012A-B.ADA	P	B67004A-B.ADA	W	C64106C-B.ADA	P
B62001A-AB.ADA	P	C61003B-AB.ADA	P	C64106D-B.ADA	P
B62001B-AB.ADA	P	C61008A-B.ADA	P	C64107A-B.ADA	P
B62001C-AB.ADA	P	C61009A-B.ADA	P	C64108A-B.ADA	P
B62001D-AB.ADA	P	C61010A-AB.ADA	P	C64201B-B.ADA	P
B62006B-B.ADA	P	C62002A-B.ADA	P	C64201C-B.ADA	P
B62006C-B.ADA	P	C62003A-B.ADA	P	C64202A-B.ADA	P
B62006E-B.ADA	P	C62003B-B.ADA	P	C65003A-B.ADA	P
B62006F-B.ADA	P	C62004A-AB.ADA	P	C65003B-B.ADA	P
B63001A-AB.ADA	P	C62006A-B.ADA	P	C66002A-B.ADA	P
B63001B-AB.ADA	P	C63004A-AB.ADA	P	C66002C-AB.ADA	P
B63005A-AB.ADA	P	C64002B-B.ADA	P	C66002D-AB.ADA	P
B63005B-AB.ADA	P	C64004G-B.ADA	P	C66002E-AB.ADA	P
B63005C-AB.ADA	P	C64005A-B.ADA	P	C66002F-AB.ADA	P
B63009A-B.ADA	P	C64005B-B.ADA	P	C66002G-B.ADA	P
B63009B-B.ADA	P	C64005C-B.ADA	P	C67002A-B.ADA	P
B63009C-B.ADA	P	C64005D-B.ADA	P	C67002B-B.ADA	P
B63009C0	C	C64005DOM	C	C67002C-B.ADA	P
B63009C1	C	C64005DA	C	C67002D-B.ADA	P
B63009C2	C	C64005DB	C	C67002E-B.ADA	P
B63009C3	C	C64005DC	C	C67003A-B.ADA	P
B63010A-AB.ADA	P	C64103A-B.ADA	P	C67003B-B.ADA	P

COMPLETE LIST OF TESTS AND RESULTS

C67003C-AB.ADA	P	D64005FOM	C	D64005GD	C
C67003D-B.ADA	P	D64005FA	C	D64005GE	C
C67003E-AB.ADA	P	D64005FB	C	D64005GF	C
C67005A-B.ADA	P	D64005FC	C	D64005GG	C
C67005B-B.ADA	P	D64005FD	C	D64005GH	C
C67005C-B.ADA	P	D64005FE	C	D64005GI	C
C67005D-B.ADA	P	D64005FF	C	D64005GJ	C
D64005E-B.ADA	P	D64005FG	C	D64005GK	C
D64005EOM	C	D64005FH	C	D64005GL	C
D64005EA	C	D64005FI	C	D64005GM	C
D64005EB	C	D64005FJ	C	D64005GN	C
D64005EC	C	D64005G-B.ADA	P	D64005GO	C
D64005ED	C	D64005GOM	C	D64005GP	C
D64005EE	C	D64005GA	C	D64005GQ	C
D64005EF	C	D64005GB	C		
D64005F-B.ADA	P	D64005GC	C		

COMPLETE LIST OF TESTS AND RESULTS

Chapter 7

A71002A-AB.ADA	P	B71001Q-AB.ADA	P	B74105A-B.ADA	P
A71004A-AB.ADA	P	B71001R-AB.ADA	P	B74105C-B.ADA	P
A72001A-AB.ADA	P	B71001T-AB.ADA	P	B74201A-AB.ADA	P
A73001I-AB.ADA	P	B71001U-AB.ADA	P	B74205A-B.ADA	P
A73001J-AB.ADA	P	B71001V-AB.ADA	P	B74205B-B.ADA	P
A74006A-AB.ADA	P	B71001W-AB.ADA	P	B74207A-B.ADA	W
A74105B-B.ADA	P	B71002B-AB.ADA	P	B74301A-B.ADA	P
A74106A-AB.ADA	P	B73001A-AB.ADA	P	B74304A-B.ADA	P
A74106B-AB.ADA	P	B73001B-AB.ADA	P	B74304B-B.ADA	P
A74106C-AB.ADA	P	B73001C-B.ADA	P	B74304C-B.ADA	P
A74205E-B.ADA	P	B73001D-B.ADA	P	B74401A-B.ADA	P
A74205F-B.ADA	P	B73001E-AB.ADA	P	B74401B-B.ADA	P
B71001A-AB.ADA	P	B73001F-AB.ADA	P	B74409A-B.ADA	P
B71001B-AB.ADA	P	B73001G-B.ADA	P	C72001B-AB.ADA	P
B71001C-AB.ADA	P	B73001H-B.ADA	P	C73002A-B.ADA	P
B71001D-AB.ADA	P	B73006A-AB.ADA	P	C74206A-B.ADA	P
B71001E-AB.ADA	P	B74001A-AB.ADA	P	C74207B-B.ADA	P
B71001F-AB.ADA	P	B74001B-AB.ADA	P	C74209A-AB.ADA	P
B71001G-AB.ADA	P	B74003A-B.ADA	P	C74210A-AB.ADA	P
B71001H-AB.ADA	P	B74101A-B.ADA	P	C74211A-B.ADA	P
B71001I-AB.ADA	P	B74103A-B.ADA	P	C74211B-B.ADA	P
B71001J-AB.ADA	P	B74103B-B.ADA	P	C74302A-B.ADA	P
B71001K-AB.ADA	P	B74103C-B.ADA	P	C74305A-B.ADA	P
B71001L-AB.ADA	P	B74103D-B.ADA	P	C74305B-B.ADA	P
B71001M-AB.ADA	P	B74103E-B.ADA	P	C74402A-B.ADA	P
B71001N-AB.ADA	P	B74103F-B.ADA	W	C74402B-B.ADA	P
B71001O-AB.ADA	P	B74103G-B.ADA	P	C74409B-B.ADA	P
B71001P-AB.ADA	P	B74104A-B.ADA	P		

COMPLETE LIST OF TESTS AND RESULTS

CHAPTER 8

A83A02A.ADA	P	B86001BK-B.ADA	P	C86002A1	C
A83A02B.ADA	P	B86001BL-B.ADA	P	C86002A2M	C
A83A06A-B.ADA	P	B86001BM-B.ADA	P	C86002B.ADA	P
A83C01C.ADA	P	B86001BO-B.ADA	P	C86002B1	C
A83C01D.ADA	P	B86001BU-B.ADA	P	C86002B2M	C
A83C01E.ADA	P	B86001BV-B.ADA	P	C86003A-B.ADA	P
A83C01F.ADA	P	B86001BW-B.ADA	P	C87A05A-B.ADA	P
A83C01G.ADA	P	B86001BX-B.ADA	P	C87A05B-B.ADA	P
A83C01H.ADA	P	B86001COM-AB.DEP	P	C87B02A-B.ADA	P
A83C01I.ADA	P	B86001CP-AB.DEP	P	C87B02B-B.ADA	P
A83C01J.ADA	P	B86001CQ-AB.DEP	N/A	C87B03A-B.ADA	P
A85007D-B.ADA	P	B86001CR-AB.DEP	N/A	C87B04A-B.ADA	P
A85013B-B.ADA	P	B86001CS-AB.DEP	N/A	C87B04B-B.ADA	P
B83A01A-AB.ADA	P	B86001DOM-AB.TST	P	C87B04C-B.ADA	P
B83A01B-B.ADA	P	B86001DT-AB.TST	N/A	C87B05A-B.ADA	P
B83A01C.ADA	P	B87B23B-B.ADA	P	C87B06A-B.ADA	P
B83A05A-AB.ADA	P	B87B48C-B.ADA	P	C87B07A-B.ADA	P
B83A06B-B.ADA	P	C83B02A.ADA	P	C87B07B-B.ADA	P
B83A06H-B.ADA	P	C83B02B.ADA	P	C87B07C-B.ADA	P
B83B01A-AB.ADA	P	C83C01B.ADA	P	C87B07D-B.ADA	P
B83B02C.ADA	P	C83E02A.ADA	P	C87B07E-B.ADA	P
B83C01A-AB.ADA	P	C83E02B.ADA	P	C87B08A-B.ADA	P
B83C02A.ADA	P	C83E03A.ADA	P	C87B09A-B.ADA	P
B83E02C-B.ADA	P	C83E04A.ADA	P	C87B09B-B.ADA	P
B83F02A.ADA	P	C83F01A.ADA	P	C87B09C-B.ADA	P
B83F02B.ADA	P	C83F01B.ADA	P	C87B10A-B.ADA	P
B83F04A-AB.ADA	P	C83F01C.ADA	P	C87B11A-B.ADA	P
B84001A-AB.ADA	P	C83F01C0	C	C87B11B-B.ADA	P
B84002B-B.ADA	P	C83F01C1	C	C87B13A-B.ADA	P
B84004A-B.ADA	P	C83F01C2M	C	C87B14A-B.ADA	P
B84006A-B.ADA	P	C83F01D.ADA	P	C87B14B-B.ADA	P
B85007B-B.ADA	P	C83F01DOM.ADA	C	C87B14C-B.ADA	P
B85007C-B.ADA	P	C83F01D1.ADA	C	C87B14D-B.ADA	P
B85012A-B.ADA	P	C83F03A.ADA	P	C87B15A-B.ADA	P
B85013C-B.ADA	P	C83F03B.ADA	P	C87B16A-B.ADA	P
B85015A-B.ADA	P	C83F03C.ADA	P	C87B17A-B.ADA	P
B86001A-AB.ADA	P	C83F03C0	C	C87B18A-B.ADA	P
B86001A0	C	C83F03C1	C	C87B18B-B.ADA	P
B86001A1M	C	C83F03C2M	C	C87B19A-B.ADA	P
B86001BOM-B.ADA	P	C83F03D.ADA	P	C87B23A-B.ADA	P
B86001BA-B.ADA	P	C83F03DOM	C	C87B24A-B.ADA	P
B86001BB-B.ADA	P	C83F03D1	C	C87B24B-B.ADA	P
B86001BC-B.ADA	P	C84002A-B.ADA	P	C87B26B-B.ADA	P
B86001BD-B.ADA	P	C85007A-B.ADA	P	C87B27A-B.ADA	P
B86001BE-B.ADA	P	C85007E-B.ADA	P	C87B28A-B.ADA	P
B86001BF-B.ADA	P	C85013A-B.ADA	P	C87B29A-B.ADA	P
B86001BG-B.ADA	P	C86001E-B.ADA	P	C87B30A-B.ADA	P
B86001BH-B.ADA	P	C86001F-B.DEP	N/A	C87B31A-B.ADA	P
B86001BI-B.ADA	P	C86002A.ADA	P	C87B32A-B.ADA	P
B86001BJ-B.ADA	P	C86002A0	C	C87B33A-B.ADA	P

COMPLETE LIST OF TESTS AND RESULTS

C87B34A-B.ADA	P	C87B37E-B.ADA	P	C87B45C-B.ADA	P
C87B34B-B.ADA	P	C87B37F-B.ADA	P	C87B47A-B.ADA	P
C87B34C-B.ADA	P	C87B38A-B.ADA	P	C87B48A-B.ADA	P
C87B35A-B.ADA	P	C87B39A-B.ADA	P	C87B48B-B.ADA	P
C87B35B-B.ADA	P	C87B40A-B.ADA	P	C87B54A-B.ADA	P
C87B35C-B.ADA	P	C87B41A-B.ADA	P	C87B57A-B.ADA	P
C87B37A-B.ADA	P	C87B42A-B.ADA	P	C87B62A-B.DEP	P
C87B37B-B.ADA	P	C87B43A-B.ADA	P	C87B62B-B.DEP	P
C87B37C-B.ADA	P	C87B44A-B.ADA	P	C87B62C-B.DEP	N/A
C87B37D-B.ADA	P	C87B45A-B.ADA	P		

COMPLETE LIST OF TESTS AND RESULTS

Chapter 9

A91002M-B.ADA	P	B950ADA-B.ADA	P	C910BDA-B.ADA	P
A95005A.ADA	P	B950AFA-B.ADA	P	C910BDB-B.ADA	P
A97106A-AB.ADA	P	B950AHA-B.ADA	P	C910BDC-B.ADA	P
B91001A-AB.ADA	P	B950AJA-B.ADA	P	C92002A.ADA	P
B91001B-AB.ADA	P	B950BAA-B.ADA	P	C92003A.ADA	P
B91001C-AB.ADA	P	B950DHA-B.ADA	P	C920AJA-B.ADA	P
B91001D-AB.ADA	P	B96002A-B.ADA	P	C920BAA-B.ADA	P
B91001E-AB.ADA	P	B96003A-B.ADA	P	C920BBA-B.ADA	P
B91001F-AB.ADA	P	B97101A-AB.ADA	P	C920BIA-B.ADA	P
B91001G-B.ADA	P	B97101B-AB.ADA	P	C93001A-B.ADA	P
B91002A-B.ADA	P	B97101C-AB.ADA	P	C93002A-B.ADA	P
B91002B-B.ADA	P	B97101D-AB.ADA	P	C93003A-B.ADA	P
B91002C-B.ADA	P	B97101E-AB.ADA	P	C93005A-B.ADA	W
B91002D-B.ADA	P	B97102A-AB.ADA	P	C93005B-B.ADA	W
B91002E-B.ADA	P	B97102B-AB.ADA	P	C93005C-B.ADA	W
B91002F-B.ADA	P	B97102C-AB.ADA	P	C93006A-AB.ADA	P
B91002G-B.ADA	P	B97102D-AB.ADA	P	C93007B-B.ADA	W
B91002H-B.ADA	P	B97102E-AB.ADA	P	C930ABA-B.ADA	P
B91002I-B.ADA	P	B97102F-AB.ADA	P	C930AEA-B.ADA	P
B91002J-B.ADA	P	B97102G-AB.ADA	P	C930AFA-B.ADA	P
B91002K-B.ADA	P	B97102H-AB.ADA	P	C930AJA-B.ADA	P
B91002L-B.ADA	P	B97102I-AB.ADA	P	C930BAA-B.ADA	P
B91003A-AB.ADA	P	B97103A-AB.ADA	P	C94001A-B.ADA	P
B91004A-B.ADA	P	B97103B-AB.ADA	P	C94002A-B.ADA	P
B910ABA-B.ADA	P	B97103D-AB.ADA	P	C94002B-B.ADA	P
B910ACA-B.ADA	P	B97103E-AB.ADA	P	C94003A-B.ADA	P
B910AEA-B.ADA	P	B97104A-AB.ADA	P	C94004A-B.ADA	P
B910BCA-B.ADA	P	B97104B-AB.ADA	P	C94004B-B.ADA	P
B920ACA-B.ADA	P	B97104C-AB.ADA	P	C94004C-B.ADA	P
B920BDA-B.ADA	P	B97104D-AB.ADA	P	C94005A-B.ADA	P
B920BJA-B.ADA	P	B97104E-AB.ADA	P	C94005B-B.ADA	P
B95001A.ADA	P	B97104F-AB.ADA	P	C94006A-B.ADA	P
B95001B-AB.ADA	P	B97104G-AB.ADA	P	C94007A-B.ADA	P
B95002A.ADA	P	B97107A-AB.ADA	P	C94007B-B.ADA	P
B95004A-AB.ADA	P	B97108A-AB.ADA	P	C94020A-B.ADA	P
B95004B-AB.ADA	P	B97108B-AB.ADA	P	C94021A-B.ADA	P
B95006A.ADA	P	B97109A-AB.ADA	P	C940ABA-B.ADA	P
B95006B-AB.ADA	P	B97110A-AB.ADA	P	C940ACA-B.ADA	P
B95006C-AB.ADA	P	B97110B-AB.ADA	P	C940ACB-B.ADA	P
B95006D-AB.ADA	P	B97111A-AB.ADA	P	C940ADA-B.ADA	P
B95007A-AB.ADA	P	B99001A-AB.ADA	P	C940AGA-B.ADA	P
B95007B-AB.ADA	P	B99001B-B.ADA	P	C940AGB-B.ADA	P
B95020A-B.ADA	P	B99002A-B.ADA	P	C940AHA-B.ADA	P
B95020B-B.ADA	P	B99002B-B.ADA	P	C940AIA-B.ADA	P
B95020B0	C	B99002C-B.ADA	P	C940BAA-B.ADA	P
B95020B1	C	B99003A-AB.ADA	P	C940BBA-B.ADA	P
B95020B2M	C	B9A001A-AB.ADA	P	C95008A-AB.ADA	P
B950ABA-B.ADA	P	B9A001B-AB.ADA	P	C95009A-B.ADA	P
B950ABB-B.ADA	P	C900ACA-B.ADA	P	C95009B.ADA	P
B950ACA-B.ADA	P	C910AHA-B.ADA	P	C95010A.ADA	P

COMPLETE LIST OF TESTS AND RESULTS

C95011A.ADA	P	C96005A-B.ADA	P	C97203A-AB.ADA	P
C95012A-B.ADA	P	C96005B-B.TST	P	C97203B-AB.ADA	P
C95013A-B.ADA	P	C96005C-B.TST	P	C97204A-B.ADA	P
C95021A-B.ADA	P	C96005D-B.ADA	P	C97303A-AB.ADA	P
C95022A-B.ADA	P	C96005E-B.ADA	P	C97303B-AB.ADA	P
C95022B-B.ADA	P	C96006A-B.ADA	P	C97304A-B.ADA	P
C950ACB-B.ADA	P	C96007A-B.ADA	P	C9A003A-B.ADA	P
C950BGA-B.ADA	P	C96008A-B.ADA	P	C9A004A-B.ADA	P
C950BHA-B.ADA	P	C96008B-B.ADA	P	C9A005A-B.ADA	P
C950BJA-B.ADA	P	C97113A-B.ADA	P	C9A006A-B.ADA	P
C950CAA-B.ADA	P	C97114A-B.ADA	P	C9A007A-B.ADA	P
C950CBA-B.ADA	P	C97115A-B.ADA	P	C9A009A-B.ADA	P
C950CHA-B.ADA	P	C97201A-AB.ADA	P	C9A009B-B.ADA	P
C950CHC-B.ADA	P	C97201D-AB.ADA	P	C9A009C-B.ADA	P
C950DEA-B.ADA	P	C97201E-AB.ADA	P	C9A009D-B.ADA	P
C950DEB-B.ADA	P	C97201G-AB.ADA	P	C9A009E-B.ADA	P
C950DGA-B.ADA	P	C97201H-AB.ADA	P	C9A009F-B.ADA	P
C96001A-B.ADA	P	C97201X-AB.ADA	P	C9A009G-B.ADA	P
C96004A-B.ADA	P	C97202A-AB.ADA	P	C9A009H-B.ADA	P

COMPLETE LIST OF TESTS AND RESULTS

Chapter 10

BA1011B-B.ADA	P	BA1101B3	C	BA3001E-AB.ADA	P
BA1011BOM	C	BA1101B4	C	BA3001EOM	C
BA1011B1	C	BA1101C-B.ADA	P	BA3001E1	C
BA1011B2	C	BA1101C0	C	BA3001E2	C
BA1011B3	C	BA1101C1	C	BA3001E3	C
BA1011B4	C	BA1101C2M	C	BA3001F-AB.ADA	P
BA1011B5	C	BA1101C3	C	BA3001FOM	C
BA1011B6	C	BA1101C4	C	BA3001F1	C
BA1011B7	C	BA1101C5	C	BA3001F2	C
BA1011B8	C	BA1101D-AB.ADA	P	BA3001F3	C
BA1011C-B.ADA	P	BA1101E-B.ADA	P	BA3006A-B.ADA	P
BA1011COM	C	BA1101F-B.ADA	P	BA3006A0	C
BA1011C1	C	BA1101G-B.ADA	P	BA3006A1	C
BA1011C2	C	BA1101H-B.ADA	P	BA3006A2	C
BA1011C3	C	BA1101H0	C	BA3006A3	C
BA1011C4	C	BA1101H1M	C	BA3006A4	C
BA1011C5	C	BA2001A-AB.ADA	P	BA3006A5	C
BA1011C6	C	BA2001B-AB.ADA	P	BA3006A6M	C
BA1011C7	C	BA2001C-AB.ADA	P	BA3006B-B.ADA	P
BA1011C8	C	BA2001D-AB.ADA	P	BA3006B0	C
BA1020A-B.ADA	P	BA2001E-AB.ADA	W	BA3006B1	C
BA1020AOM	C	BA2001EOM	W	BA3006B2	C
BA1020A1	C	BA2001E1	W	BA3006B3	C
BA1020A2	C	BA2001E	W	BA3006B4M	C
BA1020A3	C	BA2001F-AB.ADA	P	BA3007A-B.ADA	P
BA1020A4	C	BA2001FOM	C	BA3007A0	C
BA1020A5	C	BA2001F1	C	BA3007A1	C
BA1020A6	C	BA2001F2	C	BA3007A2	C
BA1020A7	C	BA2001G-AB.ADA	P	BA3007A3	C
BA1020A8	C	BA2001GOM	C	BA3007A4	C
BA1020B-B.ADA	P	BA2001G1	C	BA3007A5M	C
BA1020B0	C	BA2003B-AB.ADA	P	BA3007B-B.ADA	P
BA1020B1	C	BA2003BOM	C	BA3007B0	C
BA1020B2	C	BA2003B1	C	BA3007B1	C
BA1020B3	C	BA2013A-B.ADA	P	BA3007B2	C
BA1020B4	C	BA2013B-B.ADA	P	BA3007B3	C
BA1020B5	C	BA3001A-AB.ADA	P	BA3007B4	C
BA1020B6M	C	BA3001AOM	C	BA3007B5	C
BA1020C-B.ADA	P	BA3001A1	C	BA3007B6	C
BA1020COM	C	BA3001A2	C	BA3007B7	C
BA1020C1	C	BA3001A3	C	BA3007B8M	C
BA1020C2	C	BA3001B.ADA	P	BA3008A-B.ADA	P
BA1020C3	C	BA3001BOM	C	BA3008A0	C
BA1020C4	C	BA3001B1	C	BA3008A1	C
BA1020C5	C	BA3001C-AB.ADA	P	BA3008A2	C
BA1101A-AB.ADA	P	BA3001COM	C	BA3008A3	C
BA1101B-B.ADA	P	BA3001C1	C	BA3008A4	C
BA1101BOM	C	BA3001D-AB.ADA	P	BA3008A5M	C
BA1101B1	C	BA3001DOM	C	BA3008B-B.ADA	P
BA1101B2	C	BA3001D1	C	BA3008B0	C

COMPLETE LIST OF TESTS AND RESULTS

BA3008B1	C	CA1011A6M	W	CA1108A-B.ADA	W
BA3008B2	C	CA1012A-B.DEP	P	CA1108B-B.ADA	W
BA3008B3	C	CA1012A0	C	CA2001H-B.ADA	P
BA3008B4	C	CA1012A1	C	CA2001H0	C
BA3008B5	C	CA1012A2	C	CA2001H1	C
BA3008B6M	C	CA1012A3	C	CA2001H2	C
BA3013A-B.ADA	P	CA1012A4M	C	CA2001H3M	C
BA3013A0	C	CA1012B-B.ADA	P	CA2002A-B.ADA	P
BA3013A1	C	CA1012B0	C	CA2002A0M	C
BA3013A2	C	CA1012B2	C	CA2002A1	C
BA3013A3	C	CA1012B4M	C	CA2002A2	C
BA3013A4	C	CA1013A-B.ADA	P	CA2003A-AB.ADA	P
BA3013A5	C	CA1013A0	C	CA2003A0M	C
BA3013A6	C	CA1013A1	C	CA2003A1	C
BA3013A7M	C	CA1013A2	C	CA2004A-AB.ADA	P
CA1002A-B.ADA	P	CA1013A3	C	CA2004A0M	C
CA1002A0	C	CA1013A4	C	CA2004A1	C
CA1002A1	C	CA1013A5	C	CA2004A2	C
CA1002A2	C	CA1013A6M	C	CA2004A3	C
CA1002A3M	C	CA1014A-AB.ADA	P	CA2004A4	C
CA1002A4	C	CA1014A0M	C	CA2007A-AB.ADA	P
CA1002A5	C	CA1014A1	C	CA2007A0M	C
CA1002A6	C	CA1014A2	C	CA2007A1	C
CA1002A7	C	CA1014A3	C	CA2007A2	C
CA1002A8	C	CA1022A-B.ADA	P	CA2007A3	C
CA1002A9	C	CA1022A0	C	CA2008A-B.ADA	P
CA1003A-AB.ADA	P	CA1022A1	C	CA2008A0M	C
CA1003B-AB.ADA	W	CA1022A2	C	CA2008A1	C
CA1004A-AB.ADA	P	CA1022A3	C	CA2008A2	C
CA1005A-AB.ADA	P	CA1022A4	C	CA2009A-B.DEP	P
CA1006A-AB.ADA	P	CA1022A5	C	CA2009B-B.DEP	W
CA1007A-AB.ADA	P	CA1022A6M	C	CA2009C-B.DEP	N/A
CA1007A0	C	CA1102A-B.ADA	P	CA2009COM	N/A
CA1007A1M	C	CA1102A0	C	CA2009C1	N/A
CA1008A-AB.ADA	P	CA1102A1	C	CA2009D-B.DEP	P
CA1008A0	C	CA1102A2M	C	CA2009E-B.DEP	W
CA1008A1M	C	CA1105A-B.ADA	P	CA2009F-B.DEP	W
CA1009A-AB.ADA	P	CA1105A0	C	CA2009F0M	W
CA1009A0	C	CA1105A1M	C	CA2009F1	W
CA1009A1	C	CA1105B-B.ADA	P	CA3002A-B.ADA	P
CA1009A2	C	CA1105B0	C	CA3002A0	C
CA1009A3	C	CA1105B1	C	CA3002A1	C
CA1009A4M	C	CA1105B2	C	CA3002A2M	C
CA1011A-B.ADA	W	CA1105B3M	C	CA3002A3	C
CA1011A0	W	CA1105B4	C	CA3006C-B.ADA	P
CA1011A1	W	CA1105B5	C	CA3006C0	C
CA1011A2	W	CA1107A.ADA	P	CA3006C1	C
CA1011A3	W	CA1107A0	C	CA3006C2	C
CA1011A4	W	CA1107A1M	C	CA3006C3	C
CA1011A5	W	CA1107A2	C	CA3006C4	C

COMPLETE LIST OF TESTS AND RESULTS

CA3006C5M	C	CA5002B6	C	LA3004A2	C
CA3006D-B.ADA	P	CA5002B7M	C	LA3004A3	C
CA3006D0	C	CA5003A-B.ADA	P	LA3004A4	C
CA3006D1	C	CA5003A0	C	LA3004A5	C
CA3006D2	C	CA5003A1	C	LA3004A6M	C
CA3006D3M	C	CA5003A2	C	LA3004B-B.ADA	P
CA3006E-B.ADA	P	CA5003A3	C	LA3004B0	C
CA3006E0	C	CA5003A4	C	LA3004B1	C
CA3006E1	C	CA5003A5	C	LA3004B2	C
CA3006E2	C	CA5003A6M	C	LA3004B3	C
CA3006E3	C	CA5003B-B.ADA	P	LA3004B4	C
CA3006E4	C	CA5003B0	C	LA3004B5	C
CA3006E5	C	CA5003B1	C	LA3004B6M	C
CA3006E6M	C	CA5003B2	C	LA5001A-B.ADA	P
CA5002A-B.ADA	P	CA5003B3	C	LA5001A0	C
CA5002B-B.ADA	P	CA5003B4	C	LA5001A1	C
CA5002B0	C	CA5003B5M	C	LA5001A2	C
CA5002B1	C	CA5004A-B.ADA	P	LA5001A3	C
CA5002B2	C	CA5004B-B.ADA	P	LA5001A4	C
CA5002B3	C	LA3004A-AB.ADA	P	LA5001A5	C
CA5002B4	C	LA3004A0	C	LA5001A6	C
CA5002B5	C	LA3004A1	C	LA5001A7M	C

COMPLETE LIST OF TESTS AND RESULTS

Chapter 11

BB2001A-AB.ADA	P	CB1003A-AB.ADA	P	CB4003A-AB.ADA	P
BB2002A-AB.ADA	P	CB1004A-AB.ADA	P	CB4004A-B.ADA	P
BB2003A-AB.ADA	P	CB2004A-B.ADA	P	CB4005A-AB.ADA	P
BB2003B-AB.ADA	P	CB2005A-B.ADA	P	CB4006A-B.ADA	P
BB2003C-AB.ADA	P	CB2006A-AB.ADA	P	CB4008A-AB.ADA	P
BB3001A-B.ADA	P	CB2007A-AB.ADA	P	CB4009A-AB.ADA	P
BB3002A-AB.ADA	P	CB3003A-B.ADA	P	CB5001A-B.ADA	P
BB3005A-AB.ADA	P	CB3004A-AB.ADA	P	CB5001B-B.ADA	P
CB1001A-B.ADA	P	CB4001A-AB.ADA	P		
CB1002A-B.ADA	P	CB4002A-AB.ADA	P		

COMPLETE LIST OF TESTS AND RESULTS

Chapter 12

BC1001A-B.ADA	P	BC2001B-AB.ADA	P	BC3205D1M	W
BC1002A-B.ADA	P	BC2001C-AB.ADA	P	BC3205D2	W
BC1008A-AB.ADA	P	BC20ABA-B.ADA	P	BC3205E-B.ADA	P
BC1008B-AB.ADA	P	BC3002A-AB.ADA	P	BC3205F-B.ADA	P
BC1008C-AB.ADA	P	BC3002B-AB.ADA	P	BC3220B-B.ADA	W
BC1009A-AB.ADA	P	BC3002C-AB.ADA	P	BC32ABA-B.ADA	P
BC1011A-AB.ADA	P	BC3002D-AB.ADA	P	BC32ADA-B.ADA	P
BC1011B-AB.ADA	P	BC3002E-AB.ADA	P	BC3301A-AB.ADA	P
BC1012A-AB.ADA	P	BC3003A-AB.ADA	P	BC3301B-AB.ADA	P
BC1013A-B.ADA	W	BC3003B-AB.ADA	P	BC3302A-AB.ADA	P
BC10ABA-B.ADA	P	BC3005A-AB.ADA	P	BC3302B-AB.ADA	P
BC10ABB-B.ADA	P	BC3006A-AB.ADA	P	BC3303A-AB.ADA	P
BC10ACA-B.ADA	P	BC3009A-B.ADA	P	BC3304A-AB.ADA	P
BC10ADA-B.ADA	P	BC3009B-B.ADA	P	BC33ABA-B.ADA	P
BC10AEA-B.ADA	P	BC3009C-B.ADA	P	BC33ACA-B.ADA	P
BC10AEB-B.ADA	P	BC3011B-B.ADA	P	BC33ADA-B.ADA	P
BC10AEC-B.ADA	P	BC3011C-AB.ADA	P	BC33AEA-B.ADA	P
BC10AED-B.ADA	P	BC3013A-AB.ADA	P	BC3401A-AB.ADA	P
BC10AFA-B.ADA	P	BC3018A-B.ADA	P	BC3401B-AB.ADA	P
BC10AGA-B.ADA	P	BC30ABA-B.ADA	P	BC3402A-AB.ADA	P
BC1101A-AB.ADA	P	BC30ACA-B.ADA	P	BC3402B-AB.ADA	P
BC1102A-B.ADA	P	BC3101A-B.ADA	P	BC3403A-AB.ADA	P
BC1103A-B.ADA	P	BC3101B-B.ADA	P	BC3403B-AB.ADA	P
BC1104A-B.ADA	P	BC3102A-B.ADA	P	BC3403C-AB.ADA	P
BC1104B-B.ADA	P	BC3102B-B.ADA	P	BC3404A-AB.ADA	P
BC1106A-AB.ADA	P	BC3103A-AB.ADA	P	BC3404B-B.ADA	P
BC1107A-B.ADA	P	BC3103B-AB.ADA	P	BC3404C-AB.ADA	P
BC11ABA-B.ADA	P	BC31ABA-B.ADA	P	BC3404D-AB.ADA	P
BC11ACA-B.ADA	P	BC31ACA-B.ADA	P	BC3404E-AB.ADA	P
BC1201A-AB.ADA	P	BC31ADA-B.ADA	P	BC3404F-AB.ADA	P
BC1201B-AB.ADA	P	BC3201A-B.ADA	P	BC3405A-AB.ADA	P
BC1201C-AB.ADA	P	BC3201B-AB.ADA	P	BC3405B-B.ADA	W
BC1201D-AB.ADA	P	BC3201C-B.ADA	P	BC3405D-AB.ADA	P
BC1202A-AB.ADA	P	BC3202A-B.ADA	P	BC3405E-AB.ADA	P
BC1202B-AB.ADA	P	BC3202B-B.ADA	P	BC3405F-AB.ADA	P
BC1202C-AB.ADA	P	BC3202C-B.ADA	P	BC3501A-AB.ADA	P
BC1202D-AB.ADA	P	BC3203B-B.ADA	P	BC3501B-AB.ADA	P
BC1203A-AB.ADA	P	BC3204A-B.ADA	W	BC3501C-AB.ADA	P
BC1207A-B.ADA	P	BC3204B-B.ADA	W	BC3501D-AB.ADA	P
BC1226A-B.ADA	P	BC3204C-B.ADA	W	BC3501E-AB.ADA	P
BC12ABA-B.ADA	P	BC3204C0	W	BC3501F-AB.ADA	P
BC12ACA-B.ADA	P	BC3204C1M	W	BC3501G-AB.ADA	P
BC12ACB-B.ADA	P	BC3204C2	W	BC3501H-AB.ADA	P
BC1303A-AB.ADA	P	BC3204D-B.ADA	W	BC3501I-AB.ADA	P
BC1303B-AB.ADA	P	BC3204E-B.ADA	P	BC3501J-AB.ADA	P
BC1303C-AB.ADA	P	BC3205A-B.ADA	W	BC3501K-AB.ADA	P
BC1303D-AB.ADA	P	BC3205B-B.ADA	W	BC3502A-AB.ADA	P
BC1303E-AB.ADA	P	BC3205C-B.ADA	W	BC3502B-AB.ADA	P
BC1306A-B.ADA	P	BC3205D-B.ADA	W	BC3502C-AB.ADA	P
BC13ABA-B.ADA	P	BC3205D0	W	BC3502D-AB.ADA	P

COMPLETE LIST OF TESTS AND RESULTS

BC3502E-AB.ADA	P	CC1305B-AB.ADA	P	CC3407A-AB.ADA	P
BC3502F-AB.ADA	P	CC1307A-AB.ADA	P	CC3407B-AB.ADA	P
BC3502G-AB.ADA	P	CC1308A-AB.ADA	P	CC3407C-AB.ADA	P
BC3502H-AB.ADA	P	CC1310A-AB.ADA	P	CC3407D-AB.ADA	P
BC3502I-AB.ADA	P	CC2002A-AB.ADA	P	CC3407E-AB.ADA	P
BC3502J-AB.ADA	P	CC3004A-B.ADA	P	CC3407F-AB.ADA	P
BC3502K-AB.ADA	P	CC3007A-AB.ADA	P	CC3408A-AB.ADA	P
BC3502L-AB.ADA	P	CC3011A-B.ADA	P	CC3408B-AB.ADA	P
BC3502M-AB.ADA	P	CC3011D-B.ADA	P	CC3408C-AB.ADA	P
BC3502N-AB.ADA	P	CC3012A-AB.ADA	P	CC3408D-B.ADA	P
BC3502O-AB.ADA	P	CC3120A-AB.ADA	P	CC3504A-B.ADA	P
BC3503A-B.ADA	W	CC3120B-B.ADA	P	CC3504B-B.ADA	P
BC3503B-B.ADA	P	CC3125A-B.ADA	P	CC3504C-B.ADA	P
BC3503C-B.ADA	P	CC3203A-B.ADA	P	CC3504D-B.ADA	P
BC3503D-B.ADA	P	CC3208A-AB.ADA	P	CC3504E-B.ADA	P
BC3503F-B.ADA	P	CC3208B-AB.ADA	P	CC3504F-B.ADA	P
CC1004A-AB.ADA	P	CC3305A-AB.ADA	P	CC3504G-B.ADA	P
CC1010A-AB.ADA	P	CC3305B-AB.ADA	P	CC3504H-B.ADA	P
CC1010B-AB.ADA	P	CC3305C-AB.ADA	P	CC3504I-B.ADA	P
CC1204A-B.ADA	P	CC3305D-AB.ADA	P	CC3504J-B.ADA	P
CC1220A-B.ADA	P	CC3406A-AB.ADA	P	CC3504K-B.ADA	P
CC1301A-B.ADA	P	CC3406B-AB.ADA	P	CC3601C-AB.ADA	P
CC1302A-AB.ADA	P	CC3406C-AB.ADA	P	CC3602A-AB.ADA	P
CC1304A-AB.ADA	P	CC3406D-B.ADA	P		

COMPLETE LIST OF TESTS AND RESULTS

Chapter 14

AE2101A-B.ADA	P	CE2111A-B.ADA	P	CE3115A-B.ADA	P
AE2101B-B.ADA	P	CE2111B-B.ADA	P	CE3201A-B.ADA	P
AE2101C-B.DEP	N/A	CE2111C-B.ADA	P	CE3202A-B.ADA	P
AE2101D-B.ADA	P	CE2111D-B.ADA	P	CE3203A-B.ADA	P
AE3101A-B.ADA	P	CE2201A-B.ADA	P	CE3206A-B.ADA	P
AE3702A-B.ADA	P	CE2201B-B.ADA	P	CE3208A-B.ADA	P
AE3709A-B.ADA	P	CE2201C-B.ADA	P	CE3301A-B.ADA	P
BE2101E-B.ADA	P	CE2201D-B.DEP	N/A	CE3301B-B.ADA	P
BE2112A-B.ADA	P	CE2201E-B.DEP	N/A	CE3301C-B.ADA	P
BE2112B-B.ADA	P	CE2201F-B.ADA	P	CE3302A-B.ADA	P
BE2112C-B.ADA	P	CE2202A-B.ADA	P	CE3303A-B.ADA	P
BE2114A-B.ADA	P	CE2204A-B.ADA	P	CE3305A-B.ADA	P
BE2208A-B.ADA	P	CE2204B-B.ADA	P	CE3402A-B.ADA	P
BE3001A-B.ADA	P	CE2210A-B.ADA	P	CE3402B-B.ADA	P
BE3002A-B.ADA	P	CE2401A-B.ADA	P	CE3402C-B.ADA	P
BE3002E-B.ADA	P	CE2401B-B.ADA	P	CE3402D-B.ADA	P
BE3105A-B.ADA	P	CE2401C-B.ADA	P	CE3402E-B.ADA	P
BE3205A-B.ADA	P	CE2401D-B.DEP	N/A	CE3403A-B.ADA	P
BE3501A-B.ADA	P	CE2401E-B.ADA	P	CE3403B-B.ADA	P
BE3606C-B.ADA	P	CE2401F-B.ADA	P	CE3403C-B.ADA	P
BE3703A-B.ADA	P	CE2402A-B.ADA	P	CE3403D-B.ADA	P
BE3802A-B.ADA	P	CE2404A-B.ADA	P	CE3403E-B.ADA	P
BE3803A-B.ADA	P	CE2405B-B.ADA	P	CE3403F-B.ADA	P
BE3902A-B.ADA	P	CE2406A-B.ADA	P	CE3404A-B.ADA	P
BE3903A-B.ADA	P	CE2407A-B.ADA	P	CE3404B-B.ADA	P
CE2102A-B.ADA	P	CE2408A-B.ADA	P	CE3404C-B.ADA	P
CE2102B-B.ADA	P	CE2409A-B.ADA	P	CE3405A-B.ADA	P
CE2102C-B.TST	P	CE2410A-B.ADA	P	CE3405B-B.ADA	P
CE2102D-B.ADA	P	CE3002B-B.TST	P	CE3405C-B.ADA	P
CE2102E-B.ADA	P	CE3002C-B.TST	P	CE3405D-B.ADA	P
CE2102F-B.ADA	P	CE3002D-B.ADA	P	CE3406A-B.ADA	P
CE2102G-B.ADA	P	CE3002F-B.ADA	P	CE3406B-B.ADA	P
CE2103A-B.TST	P	CE3102A-B.ADA	P	CE3406C-B.ADA	P
CE2103B-B.TST	P	CE3102B-B.TST	P	CE3406D-B.ADA	P
CE2104A-B.ADA	P	CE3103A-B.ADA	P	CE3407A-B.ADA	P
CE2104B-B.ADA	P	CE3104A-B.ADA	P	CE3407B-B.ADA	P
CE2105A-B.ADA	P	CE3107A-B.TST	P	CE3407C-B.ADA	P
CE2106A-B.ADA	P	CE3108A-B.ADA	P	CE3408A-B.ADA	P
CE2107A-B.ADA	P	CE3108B-B.ADA	P	CE3408B-B.ADA	P
CE2107B-B.ADA	P	CE3109A-B.ADA	P	CE3408C-B.ADA	P
CE2107C-B.ADA	P	CE3110A-B.ADA	P	CE3409A-B.ADA	P
CE2107D-B.ADA	P	CE3111A-B.ADA	P	CE3409B-B.ADA	P
CE2107E-B.ADA	W	CE3111B-B.ADA	P	CE3409C-B.ADA	P
CE2108A-B.ADA	P	CE3111C-B.ADA	P	CE3409D-B.ADA	P
CE2108B-B.ADA	P	CE3111D-B.ADA	P	CE3409E-B.ADA	P
CE2108C-B.ADA	P	CE3111E-B.ADA	P	CE3409F-B.ADA	P
CE2108D-B.ADA	P	CE3112A-B.ADA	P	CE3410A-B.ADA	P
CE2109A-B.ADA	P	CE3112B-B.ADA	P	CE3410B-B.ADA	P
CE2110A-B.ADA	P	CE3114A-B.ADA	P	CE3410C-B.ADA	P
CE2110B-B.ADA	P	CE3114B-B.ADA	P	CE3410D-B.ADA	P

COMPLETE LIST OF TESTS AND RESULTS

CE3410E-B.ADA	P	CE3704B-B.ADA	P	CE3804M-B.ADA	P
CE3410F-B.ADA	P	CE3704C-B.ADA	P	CE3805A-B.ADA	P
CE3411A-B.ADA	P	CE3704D-B.ADA	P	CE3805B-B.ADA	P
CE3411C-B.ADA	P	CE3704E-B.ADA	P	CE3806A-B.ADA	P
CE3412A-B.ADA	P	CE3704F-B.ADA	P	CE3806C-B.ADA	P
CE3412C-B.ADA	P	CE3704M-B.ADA	W	CE3806D-B.ADA	P
CE3413A-B.ADA	P	CE3704N-B.ADA	P	CE3806E-B.ADA	P
CE3413C-B.ADA	P	CE3704O-B.ADA	P	CE3809A-B.ADA	P
CE3601A-B.ADA	P	CE3706C-B.ADA	P	CE3809B-B.ADA	P
CE3602A-B.ADA	P	CE3706D-B.ADA	P	CE3810A-B.ADA	P
CE3602B-B.ADA	P	CE3706F-B.ADA	P	CE3901A-B.ADA	P
CE3602C-B.ADA	P	CE3706G-B.ADA	P	CE3905A-B.ADA	P
CE3602D-B.ADA	P	CE3707A-B.ADA	P	CE3905B-B.ADA	P
CE3603A-B.ADA	W	CE3708A-B.ADA	P	CE3905C-B.ADA	P
CE3604A-B.ADA	W	CE3801A-B.ADA	P	CE3905L-B.ADA	P
CE3605A-B.ADA	P	CE3804A-B.ADA	P	CE3906A-B.ADA	P
CE3605B-B.ADA	P	CE3804B-B.ADA	P	CE3906B-B.ADA	P
CE3605C-B.ADA	P	CE3804C-B.ADA	P	CE3906C-B.ADA	P
CE3605D-B.ADA	P	CE3804D-B.ADA	P	CE3906D-B.ADA	P
CE3605E-B.ADA	P	CE3804E-B.ADA	P	CE3906E-B.ADA	P
CE3606A-B.ADA	P	CE3804F-B.ADA	P	CE3906F-B.ADA	P
CE3606B-B.ADA	P	CE3804G-B.ADA	P	CE3907A-B.ADA	P
CE3701A-B.ADA	P	CE3804I-B.ADA	P	CE3908A-B.ADA	P
CE3704A-B.ADA	P	CE3804K-B.ADA	P	EE3102C-B.ADA	P

END
FILMED

5-86

DTIC